

>accession|2|Putative Blo t 1.02 Manual Entry [*Blomia tropicalis*]
MKFLLVAALCALVAIGSCKPTREEIKTFEQFKKVFVKVYRNAAAAARREHHFKEQLKWVE
EHNGIDGVEYAINSEYSDMSEQEF SFHLSGGGLNFTYMKMEAAKEPLINTYGS L P Q N F D W R
QKARLTRIRQQGACGSCWAF AAAGVAESLYSIQKQSIGLSEQELVDCTYNRYDPSYQCN
GCGSGYSTAEFKYMIRTGLVEERNYPYMRMTQWCDPDVEGQRYHVSGYQQLRYHSSDEDV
MYTIQQHGPVVIYMHGSNNYFRNLGNGLVLRGVAYNDAYTDHAVILVWGTVQGVYWIIR
NSWGTGWGNGGYGYVERGHNSLGINNYVYATL

>accession|3|Putative vitellogenin I Manual Entry [*Gallus gallus*]
EIASQIAQEDQSTCEVSKGDFKTFDRMSFTCSFNKSCNVVVAQDCTEHPKFIITTRKVDH
QSLSREHVHINTSSANITICPAADSSLLVTCNKE SVLSDSGVSEYEKDN IKIYKNGKTVIV
EAPIHGLKNNVFDGEILKVTVASWMRGKTCGVCNNDRKHNELLMPNHKL AHSCSAFVH
SWLLEETCSGGCKLQRRYVKLNRNPTIDGEESTCYSVDPVLKCMKDCTPIEKTSVKVGF
HCFPKATAVSLLEWQRSSDKKSASEDVVESVDADIDCTCTGDCS

>accession|100|Putative Act d 9.0101 Manual Entry [*Actinidia deliciosa*]
MSWQTYVDDHLMCEIEGNYLTSAAIIGQDGS IWAQSASFPQFKPEEITAIMNDFSEPGTL
APTGLYLGGTKYMVIQGEAGAVIRGKKGPGGVTVKKTNQALIIGIYDEP

>accession|CAA32835.1|Allergen beta-lactoglobulin [*Bos taurus*]
MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQKWENDECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
VCMENSAEPEQSLVCQCLVTRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCHI

>accession|CAA68720.1|Putative precursor [*Canis lupus familiaris*]
MWFALCLAMSLGWTGAEPHFQPRIIGGRECLKNSQPWQVAVYHNGEFACGGVLVNP EWV
LTAAHCANSNCEVWLGRHNLSESEDEGQLVQVRKSF IHP LYKTKVPRAVIRPGEDRSHDL
MLLHLEEPAKITKAVRVM DL PKKEPPLGSTCYVSGWGSTD PETIFHPGSLQCVDLKLLSN
NQCAKVYTQKVTFKMLCAGVLEGGKDTCKGDSGGPLICDGELVGITSWGATPCGKQPMP S
LYTRVMPHLMWIKDTMKANT

>accession|CAA26038.1|Putative prepromelittin [*Apis mellifera*]
MKFLVNVALVFMVYIYSIYAAPEPEPEPEAEADAEADPEAGIGAVLKVLTTGLPALI
SWIKRKRQQG

>accession|CAA35692.1|Allergen IgE-binding protein C-terminal fragment
(148 AA), partial [*Dermatophagoides pteronyssinus*]
LFLENKDPKPLKKISIMKFI IAF FVATLAVMTVSGEDKKHDYQNEFDLLMERIHEQIKK
GELALFYLQEQINHFEKPTKEMKDKIVAEMDTIIAMIDGVRGVLDRMLQKDL DIFEQY
NLEMAKSGDILERDLKKEEARVKKIEV

>accession|CAA34486.1|Allergen Actinidain protease-like [*Actinidia
deliciosa*]
MGLPKSFVMSLLFFSTLLILSLAFNAKNLQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRFGQVLP SYVDWRSAGAVVDIKSQGECGCWAFSAIATVEGINKIVTGV LISLSEQELI
DCGRTQNTRG CNGGYITDGFQFI INNGGINTEENYPYTAQDGECNLDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSV ALDAAGDAFKHYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRI LRNVGGAGTCGIATMPSYPVKYNNQNHKPYSSLINPP
AFSMSKDGVPVGDGQRYSA

>accession|CAA46782.1|Putative 2S storage protein [*Brassica rapa*]
MANKLFLVSATLALFFLLTNASVYRTGSEFDEHDATNPAGPFRIPKCRKEFQQAQHLKAC
QQWLHKQAMQSGSGPSWTL DGEFDFEEDMENTQGPQQEPPLLQCCNELHQEEPLCVCP T

LKGASKAVKQQVRQQGQQQQMQQVISRIYQTSTHLPRVCNIRQVSICPFQKTMGPSY

>accession|CAA33887.1|Allergen Bet v 1 - like [Betula pendula]
MGVFNYETETTSVIPARLFKAFILDGDNLFKVPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA35691.1|Putative Beta-conglycinin, alpha subunit-like
[Glycine max]
MMRARFPLLLLGLVFLASVSVSFGIAYWEKENPKHNKCLQSCNSERDSYRNQACHARCNL
LKVEKEECEEGEIPRPRPRPQHPEREPQQPGEKEEDEDEQPRPIPFPRPQPRQEEHEQR
EEQEWPRKEEKRGEGKSEEEDEDEDEEQDERQFPFPRPPHQKEERNEEEDDEEQRESE
ESEDSELRHKNKNPFLFGSNRFETLTKNQYGRIRVLQRFNRSPQLQNLRDYRILEFNS
KPNTLLLPHADADYLVILNGTAILSLVNDDDRDSYRLQSGDALRVPSGTTYVVNPNPN
NENLRLITLAIIPVKNKGRFESFFLSSTEAAQSYLQGF SRNILEASYDTKFEEINKVLF SR
EEGQQQGEQRLQESVIVEISKEQIRALSKRAKSSSRKTISSEDKPFNLRSDPIYSNKLK
KFFEITPEKNPQLRDLDFLSIVDMNEGALLLPHFNKAIVILVINEGDANIELVGLKEQ
QQEQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSNLNF FAIGINAENNQRNFLA
GSQDNVISQIPSQVQELAFPGSAQAVEKLLKNQRESYFVDAQPKKKEEGNKGRKGPLSSI
LRAF Y

>accession|CAA26575.1|Putative Glycinin A2B1a subunit-like [Glycine max]
MAKLVLSLCFLLFSGCFALREQAQQNECQIQKLNALKPGNRIESEGGFIETWNPNNKPFQ
CAGVALSRCTLN RNALRRPSYTNQPQEIYIQQNGIFGMI FPGCPSTYQEPQESQQRGRS
QRPQDRHQVHRFREGDLIAVPTGVAVWMMYNNEDTPVVA VSIIDTNSLENQLDQMPRRFY
LAGNQEQEFLKYQQQQGGSQSQKQKQEEENEGSNILSGFAPEFLKEAFGVNMQIVRNL
QGENEEEDSGAIVTVKGLRVTAPAMRKPQEEEDDDDEEQPQCVETDKGCQRQSKRSRN
GIDETICTMRLRQNIQNSSPDIYNPQAGSITTATSLDFPALWLLKLSAQYGLRKNAMF
VPHYTLNANSIIYALNGRALVQVVNCGERVFDFGELQEGGVLIVPQNFVA AAKSQSDNFE
YVSFKTNDRPSIGNLAGANSLLNALPEEVIQHTFNLKSQQARQVKNNNPF SFLVPPQESQ
RRAVA

>accession|CAA26723.1|Putative Glycinin-like [Glycine max]
MAKLVFSLCFLLFSGCCFAFSSREQPQNECQIQKLNALKPGNRIESEGGFIETWNPNNK
PFQCAGVALSRCTLN RNALRRPSYTNQPQEIYIQQKGIFGMIYPGCSSTFEEPQQPQQR
GQSSRPQDRHQKIYNSREGDLIAVPTGVAVWMMYNNEDTPVVA VSIIDTNSLENQLDQMPR
RFYLAGNQEQEFLKYQQEQGGHQSQKQKHQEEENEGGSILSGFTLEFLEHAFVVDKQIA
KNLQGENEGEDKGAIVTVKGLSVIKPPTDEQQQRPQEEEEEEDEKPKCKGKDKHCQRP
RGSQSKSRRNGIDETICTMRLRHNIGQTSSPDIYNPQAGSVTTATSLDFPALS WLRLSAG
FGSLRKNAMFVPHYNLNANSIIYALNGRALIQVVNCGERVFDFGELQEGRVLIVPQNFVV
AARSQSDNFEYVSFKTNDTPMIGTLAGANSLLNALPEEVIQHTFNLKSQQARQIKNNNPF
KFLVPPQESQKRAVA

>accession|CAA33217.1|Putative glycinin subunit G3 [Glycine max]
MAKLVLSLCFLLFSGCCFAF SFREQPQNECQIQRLNALKPDNRIESEGGFIETWNPNNK
PFQCAGVALSRCTLN RNALRRPSYTNAPQEIYIQQSGIFGMI FPGCPSTFEEPQQKQGS
SRPQDRHQKIYHFREGDLIAVPTGFAYWMMYNNEDTPVVA VSLIDTNSFQNLQDQMPRRFY
LAGNQEQEFLQYQPQKQQGGTQSQKGRQEEENEGGSILSGFAPEFLEHAFVVDQRIVR
KLQGENEEEEKGAIVTVKGLSVISPTTEEQQRP EEEEEKPCDEKDKHCQSQRNGIDE
TICTMRLRHNIGQTSSPDI FNPQAGSITTATSLDFPALS WLKLSAQFGSLRKNAMFVPHY
NLNANSIIYALNGRALVQVVNCGERVFDFGELQEGQVLIVPQNFVA AARSQSDNFEYVSF
KTNDRPSIGNLAGANSLLNALPEEVIQQT FNLRRQQARQVKNNNPF SFLVPPKESQRRVV
A

>accession|CAA37044.1|Putative glycinin [Glycine max]
MGKPFITLSSLLCLLLLSSACFAISSSKLNECQLNNLNALEPDHRVEFEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHLPSYSPYPRMIIIAQKGALQCKPGCPETFEEEPQEQSNR
RGSRSQKQQLQDSHQKIRHFNEGDVLPVPPGVPYWTYNTGDEPVVAISLLDTSNFFNNQLD
QTPRVFYLAGNPDIEYPETMQQQQQQKSHGGRKQGQHQEEEEEGGSVLSGFSKHFSLAQS
FNTNEDIAEKLQSPDDERKQIVTVEGGLSVISPKWQEQQDEDEDEDEDEDEDEQIPSHPPR
RPSHGKREQDEDEDEDEDEKPRPSRPSQKREQDQDQDEDEDEDEDEDEQPRKSREWRSKKTQP
RRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPALR
QFQLSAQYVVLYKNGIYSPHWNLNANSVIYVTRGQKVRVNCQGNVFDGELRRGQLLV
VPQNFVVAEQAGEQGFYIVFKTHHNAVTSYLKDVFRAIIPSEVLHNSYNLRQSQVSELKY
EGNWGPLVNPESQQGSPRVKVA

>accession|CAA42646.1|Allergen Pathogenesis-related protein [Glycine max]
MGVFTFEDEINSPVAPATLYKALVTDADNVIPKALDSFKSVENVEGNGGPGTIKKITFLE
DGETKFLVHKIESIDEANLGYSSVVGGAALPDTAEKITFDSKLVAGPNGGSAGKLTVKY
ETKGAEPNQDELKTGKAKADALFKAIEAYLLAHPDYN

>accession|CAA45777.1|Putative trypsin inhibitor subtype A [Glycine max]
MKSTIFFALFLFCAFTTSYLPSAIADFLVDNEGNPLENGGTYIILSDITAFGGIRAAPTG
NERCPLTVVQSRNELDKGIGTIISSPYRIRFIAEGHPLSLKFDSFAVIMLCVGIPTSEWSV
VEDLPEGPAVKIGENKAMDGWFRLEVRSDDEFNNYKLVFCPQQAEDDKCGDIGISIDHD
DGTRRLVVSKNKPLVVQFQKLDKESLAKKNHGLSRSE

>accession|CAA45778.1|Putative trypsin inhibitor subtype B [Glycine max]
MKSTIFFALFLFCAFTTSYLPSAIADFLVDNEGNPLDSGGTYIILSDITAFGGIRAAPTG
NERCPLTVVQSRNELDKGIGTIISSPFIRIRFIAEGNPLRLKFDSFAVIMLCVGIPTSEWSV
VEDLPEGPAVKIGENKDAVDGWFRLEVRSDDEFNNYKLVFCTQQAEDDKCGDIGISIDHD
DGTRRLVVSKNKPLVVQFQKVDKESLAKKNHGLSRSE

>accession|CAA39880.1|Allergen rubber elongation factor [Hevea
brasiliensis]
MAEDEDNQGGQGEGLKYLGFVQDAATYAVTTFSNVYLFKDKSGPLQPGVDIIIEGPVKNV
AVPLYNRFYSYIPNGALKFVVDSTVVASVTIIDRSLPPIVKDASIQVVS AIRAAPEAARSLA
SSLPGQTKILAKVIFYGEN

>accession|CAA41956.1|Allergen alpha-amylase inhibitor [Hordeum vulgare
subsp. vulgare]
MASKSSITPLLLAAVLASVFAAAAATGQYCYAGMGLPSNPLEGCREYVAQQTGCVTIAGS
PVSSEPGDTPKDRCCQELDEAPQHCRVRYFIGRRSHPDWRVLKDLPGCPKEPQRDFAK
VLVTPGQCNVLTVHNAPYCLGLDI

>accession|CAA45085.1|Allergen monomeric alpha-amylase, partial [Hordeum
vulgare subsp. vulgare]
PTSVAVDQGSMSVNSPGEWCWPGMGYPVYPFPRCRALVKSQCAGGQVVESIQKDCRQIA
AIGDEWCICGALGSMRGSYKELGVALADDKATVAEVFPGCRTEVMDRAVASLPAVCNQY
IPNTNGTDGVCYWLSYYQPPRQMSSR

>accession|CAA46705.1|Allergen CMe [Hordeum vulgare subsp. vulgare]
MAFKYQLLLSAAVMLAILVATATSGDSCAPGDALPHNPLRACRTYVVSQICHQGPRLLT
SDMKRRCCDELSAIPAYCRCEALRIIMQGVVTWQGAFFEGAYFKDSPNCPREPRQTSYAANL
VTPQECNLGTIHGSAYCPELQPGYGVVL

>accession|CAA42832.1|Putative LTP 1 [Hordeum vulgare]
MARAQVLLMAAALVLMMLTAAPRAAVALNCGQVDSKMKPCLTYVQGGPGPSGECNGVRDL

HNQAQSSGDRQTVCNCLKGIARGIHNLNLNNAASIPSKCNVNPYITISPDIDCSRFTERR
SVKLVLSSEIHVEL

>accession|CAA38097.1|Allergen 2S albumin precursor [Ricinus communis]
MAKLIPTIALVSVLLFIANASFAVRTTITTTIEIDESKGEREGSSSQCRQEVQRKDLSS
CERYLRQSSRRSPGEEVLRMPGDENQQQESQQLQCCNQVKQVRDECQCEAIKYIAEDQ
IQQGQLHGEESEVAQRAGEIVSSCGVRCMRQTRTNPSQQGCRGQIQEQQLRQCQEYIK
QQVSGQGPRRSDNQERSLRGCCDHLKQMQSQCRCEGLRQAIEQQQSQGLQGDVFEAFR
TAANLPSMCGVSPTECRF

>accession|CAA31575.1|Allergen patatin B2 (AA 1 - 386) [Solanum
tuberosum]
MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
LGPMYDGKYLQVLQEKLGGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPIYFPPHFFVTHTSNGARYEFNLVDGAVATVGDPELLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLRVQENALNGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASH

>accession|CAA27571.1|Allergen patatin [Solanum tuberosum]
MATNNSFTILIFMILATTSSTFATLGEMVTVLSIDGGGIKGIIPATILEFLEGQLQEVDN
NTDARLADYFDVIGGTSTGGLLTAMITTPNETNRPFAAAKDIVPFYFEHGPKIFQSSGSI
FGPKYDGKYLQVLQEKLGGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPTFFPPHYFATNTSNGDKYEFNLVDGAVATVDDPALLSISVATKLAQVDP
KFASIKSLNYKQMLLLSLGTGTTSEFDKTYTAEETAKWGRTARWMLVIQKMTSAASSYMTD
YYLSTAFQALDSQNNYLRVQENALTGTTTELDASEANMQLLVQVGEDLLKKSVDKNPE
TYEEALKRFAKLLSDRKKLRANKASY

>accession|CAA27588.1|Allergen patatin [Solanum tuberosum]
MATTKSFLILFFMILATTSSTCATLGEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
FGPRYDGKYLQVLQEKLGGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAESPQLDAKM
YDICYSTAAAPIYFPPHFFVTHTSNGATYEFNLVDGAVATVGDPELLSLSVATRLAQDDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLRVQENALTGTTTEMDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASH

>accession|CAA35238.1|Allergen Alpha/beta gliadin-like protein product
[Triticum aestivum]
MKTFLILALLAIVATTARIAVRVPVPLQLPQNPSQQQPQEQVPLVQQQFPGQQQPFPPQ
QPYPQPQPFPSQQPYLQLQPFPPQPLPYPQPQLPYPQPQPFPPQPPYPQSQPQ
YSQPQQPISQQQQQQQQQQQQKQQQQQQQILQQILQQQLIPCRDVVLQQHSIAYGSSQV
LQQSTYQLVQQLCCQQLWQIPEQSRCQAIHNVVHAIILHQQQQQQQQQQQPLSQVFSQQ
PQQQYPSGQGSFQPSQQNPQAQGSVQPQQLPQFEEIRNLALETLPAMCNVYIPPYCTIAP
VGIFGTN

>accession|CAA35598.1|Allergen Alpha amylase inhibitor-like protein
product [Triticum aestivum]
MASKSSISPLLLATVLSVFAAATATGPYCYAGMGLPINPLEGCREYVAQQTGCGISISGS
AVSTEPGNTPRDRCKELYDASQHCRCCEAVRYFIGRRSDPNSSVLKDLPGCPREPQRDFA
KVLVTSGHCVMTVHNAPYCLGLDI

>accession|CAA42453.1|Putative CM 17 protein precursor [Triticum aestivum]
MASKSNYNLLFTALLVVFIFAAVAAGNEDCTPWTSTLITPLPSCRNYVEEQACRIEMPGP
PYLAKQECCEQLANIPQQCRQCALRYFMGPKSRPDQSGLMELPGCPREVQMNFPVILVTP
GYCNLTTVHNTPYCLGMEEQWS

>accession|CAA35597.1|Allergen Alpha amylase inhibitor-like protein product [Triticum aestivum]
MACKSSCSLLLLAAVLLSVLAAASAGSCVPGVAFRTNLLPHCRDYVLQOTCGTFTPGSK
LPEWMTSASIYSPGKPYLAKLYCCQELAEISQQCRCEALRYFIALPVPSQPVDPRSGNVG
ESGLIDLPGCPREMQWDFVRLLVAPGQCENLATIHNVRYCPAVEQPLWI

>accession|CAA43331.1|Allergen high molecular weight glutenin subunit 1Ax1 [Triticum aestivum]
MTKRLVLFAAVVVALVALTAAEGEASGQLQCERELQEHSLKACRQVVDQQLRDVSPQCQ
VGGGPVARQYEQQVVVPPKGGSFYPGETTTPQQLQOSILWGI PALLRRYYLSVTSPPQVS
YYPGQASSQRPGQGQQPGQGQYLYLTSPQQSGQWQQPGQGQAGYYPTSPQQSGQEQPGY
YPTSPWQPEQLQOPTQGQQRQQPGQGQQLRQGGQQSGQGQPRYYPTSSQQPGQLQQLA
QGQQGQQPERGQQGQQSGQGQQLGQGQQGQQPGQKQSGQGQGYYPISPQQLGQGQQSG
QGQLGYYPTSPQQSGQGQSGYYPTSAQQPGQLQOSTQEQQLGQEQDQSGQGRQGQQSG
QRQDQSGQGQQPGQRQPGYYSTSPQQLGQGQPRYYPTSPQQPGQEQQPRQLQQPEQGG
QGQQPEQGQQGQQPGQGEQGQQPGQGQQGQQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQ
QSGQLQQPAQGQQPGQEQQGQQPGQGQQGQQPGQGQPGYYPTSPQQSGQEQQLE
QWQQSGQGQPGHYPTSPLQPGQGQPGYYPTSPQQIGQGQPGQLQOPTQGQQGQQPGQGQ
QGQQPGQGQQGQQPGQGQPGQGQPGYYPTSLQQSGQGQPGQWQQPGQLPGYYPTSSL
QPEQGQQGYPTSQQQPGQPPGQWQQSGQGQQGYPTSPQQSGQGQPGQWLQPGQWL
QSGYYLTSPQQLGQGQQPRQLQPRQGQQGYPTSPQQSGQGQQLGQGQQGYPTSPQQS
GQGQQGYDSPYHVS AEHQAAASLKVAKAQQQLAAQLPAMCRLEGGDALLASQ

>accession|CAA31396.1|Allergen high molecular weight glutenin subunit 10 [Triticum aestivum]
MAKRLVLFAAVVIALVALTTAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRSVAVSQVARQYEQTVVPPKGGSFYPGETTTPQQLQQGIFWGT
SQTQVQGYYPGVTSRPGSSYYPGQASPPQPGQGQQPGKWQEPGQGQQWYYPTSLQPPGQGQ
QIGKGGQGYPTSLQPPGQGQQGYPTSLQHTGQRQQPVQGQQPEQGQQPGQWQQGYPT
SPQQLGQGQQPRQWQQSGQGQQGHYPTSLQPPGQGQQGHYLASQQQPGQGQQGHYPASQQ
QPGQGQQGHYPASQQQPGQGQQGHYPASQQEPGQGQQGQIPASQQQPGQGQQGHYPASLQ
QPGQGQQGHYPTSLQQLGQGQQTGQPGQKQPPGQGQQTGQGQQPEQEQQPGQGQQGYPT
SLQPPGQGQQGQGQQGYPTSLQPPGQGQQGHYPASLQPPGQGQPGQRQQPGQGQHPEQ
GKQPGQGQQGYPTSPQQPGQGQQLGQGQQGYPTSPQQPGQGQPGQGQQGHQPTSPQQ
SGQAQQPGQGQQIGQVQQPGQGQQGYPTSVQQPGQGQQSGQGQQSGQGHQPGQGQQSGQ
EQQGYDSPYHVS AEHQAAASPMVAKAQQPATQLPTVCRMEGGDALSASQ

>accession|CAA25593.1|Allergen Alpha/beta gliadin-like protein product [Triticum aestivum]
MKTFLILVLLAIVATTATTAVRFPVPLQPNPSQQQPQEQVPLVQQQQFLGQQQPFPPQ
QYYPQPPFPSPQLPYLQLQFPQPLPYSQPQPPFRPQPPYPPQPPQYSQPQQPISQQQQQ
QQQQQQQQQQQQILQQILQQQLIPCMDVVLQQHNIAGRSQVLLQSTYQLLQELCCQHL
WQIPEQSQCQAILKVVAIILHQKQQQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPYCTIAPFGIFGTN

>accession|CAA26383.1|Allergen Gliadin-like protein product [Triticum aestivum]
MKTFLILALLAIVATTATTAVRVPVPPQPPQPNPSQPQPPGQVPLVQQQQFPGQQQQFPPQ

QPYPQPQPFPSQQPYLQLQPFPPQPQFPFPQLPYQPFPFSPQQPYQPQPQYPQPQQPIS
QQQAQQQQQQQQQQQQQQQQQQIQQILQQQLIPCRDVVLQQHNIHARSQVLQQSTYQP
LQQLCCQQLWQIPEQSRCQAIHNVVHAIILHQQQRQQQPSSQVSLQQPQQQYPSGGFFQ
PSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPRMCNVYIPPYCSTTIAPFGIFGTN

>accession|CAA26384.1|Allergen Gliadin-like protein product [Triticum
aestivum]

MKTFLILVLLAIVATTATTAVRFPVLPQLQPNPSQQQPQEQVPLVQQQQFLGQQQFPFPQ
QPYPQPQPFPSQLPYLQLQPFPPQPQLPYSQPQQFRPQQPYQPQPQYSQPQQPISQQQQ
QQQQQQQQQQQQQQIQQILQQQLIPCMDVVLQQHNIHGRSQVLQQSTYQLLQELCCQHL
WQIPEQSQCAIHNVVHAIILHQQQKQQQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>accession|CAA26385.1|Allergen Gliadin-like protein product [Triticum
aestivum]

MKTFLILALVATTATTAVRVPVLPQLQPKNPSQQQPQEQVPLVQQQQFPGQQQQFPFPQPY
PQPQPFPSQQPYLQLQPFPPQPQLPYPQPQSFPFPQQPYQPQRPMYLPQQPISQQQ
AQQQQQQQQQQQQQQQQQQIQQILQQQLIPCRDVVLQQHNIHASSQVLQQSTYQLLQQL
CCQQLLQIPEQSRCQAIHNVVHAIIMHQEQEQQQQLQQQQQQQLQQQQQQQQQQPSSQV
SFQQPQQQYPSQGSFQPSQQNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVYIPPHC
STTIAPFGIFGTN

>accession|CAA31685.1|Putative LMW glutenin-like protein product
[Triticum aestivum]

MKTFLV FALLVAATS AIAQMETRCIPGLERPWQQQPLPPQQTFFPQQPLFSQQQQQQLFP
QQPSFSQQQPPFWQQQPPFSQQQPILPQQPPFSQQQQLVLPQQPPFSQQQQPVLPPQQSP
FPQQQQQHQQLVQQQIPVVQPSILQQLNPKCVFLQQQCSPVAMPQRLARSQMLQQSSCHV
MQQQCCQQLPQIPQQSRYEAIIRAI IYSIILQEQQQVQGSIQSQQQQPQQLGQCVSQPQQ
SQQQLGQQPQQQQLAQGTFLQPHQIAQLEVMTSIALRILPTMCSVNVPLYRTTTSVFPFV
GTGVGAY

>accession|CAA26847.1|Allergen HMW glutenin-like protein product
[Triticum aestivum]

MAKRLVLF AAVVIALVALTTAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRSVAVSQVARQYEQTVVPPKGGSFYPGETTPLQQLQQGIFWGTS
SQT VQGYPSVTS PRQGSYYPGQASPPQPGQGGQPGKWQEPGQGGQWYYPTSLQQPGQGQ
QIGKKGQGYPTSLQQPGQGQQIGQGQQGYPTSPQHTGQRQQPVQGGQIGQGQQPEQGQ
QPGWQQGYPTSPQQLGQGQQPGWQQSGQGQQGHYPTSLQQPGQGQQGHYLASQQQPA
QGQQGHYPASQQQPGQGQQGHYPASQQQPGQGQQGHYPASQQEPGQGGQGGQIPASQQQPG
QGQQGHYPASLQQPGQGQQGHYPTSLQQLGQGQQIGQPGQKQQPGQGQQTGGQGGQPEQEQP
GGQQGYPTSLQQPGQGQQGGQQGYPTSLQQPGQGQQGHYPASLQQPGQGQQPGQ
RQQPGQGQHPEQGGQPGQGQQGYPTSPQQPGQGQQLGQGQQGYPTSPQQPGQGQQPGQ
GQQGHCMPSPQQTGQAQQLGQGQQIGQVQQPGQGQQGYPTSLQQPGQGQQSGQGQQSGQ
GHQPGQGQQSGQEKQGYDPSYHVSAEQQAASPMVAKAQQPATQLPTVCRMEGGDALSASQ

>accession|CAA30570.1|Putative LMW glutenin-like protein product
[Triticum aestivum]

MKTFLV FALLALAAASAVAQISQQQAPPFSQQQPPFSQQQPPFSQQQQSPFSQQQQQ
PPFAQQQQPPFSQQPPISQQQQPPFSQQQPPFSQQQPPYSQQQQPPYSQQQQPPFSQQ
QQPPFSQQQQPPFTQQQQQQQQQPPFTQQQPPFSQQPPISQQQQPPFLQQQRPPFSRQ
QQIPVIHPSVLQQLNPKCVFLQQQCIPVAMQRCLARSQMLQQSICHVMQQCCQQLRQIP
EQSRHESIRAI IYSIILQQQQQQQQQQQQQQGQSI IQYQQQQPQQLGQCVSQPLQQLQQ
LGQQPQQQQLAHQIAQLEVMTSIALRILPTMCSVNVPLYETTTTSVPLGVGIGVGVY

>accession|CAA24934.1|Allergen HMW glutenin-like protein product
[Triticum aestivum]
LVSVEHQARLKVAKAQQQLAAQLPAMCRLEGGDALSASQ

>accession|CAA34709.1|Putative precursor (AA -24 to 119) [Triticum
turgidum subsp. durum]
MASKSNCVLLLLAAVLVSIFAAVAAIGNEDCTPVMSTLITPLPSCRDYVEQQACRIETPGS
PYLAKQQCCGELANIPQQCRCQALRYFMGPKSRPDQSGLMELPGCPREVQMDVFRILVTP
GYCNLTTVHNTPYCLAMEESQWS

>accession|CAA39099.1|Allergen CM2 protein [Triticum turgidum subsp.
durum]
MASKSSITHLLLLAAVLVSVFAAAAATGPYCYPGMGLPSNPLEGCREYVAQQTTCGVGIVGS
PVSTEPGNTPRDRCKELYDASQHCRCCEAVRYFIGRTSDPNSGVLKDLPGCPREPQRDFA
KVLVTPGHCVMTVHNTPYCLGLDI

>accession|CAA36063.1|Putative glutenin-like protein product [Triticum
turgidum subsp. durum]
MKTFLVFALLAVVATSTIAQMETSICIPGLERPWQEQPLPPQHTLFPQQQPPFPQQQQPPFS
QQQPSFLQQQPILPQLPFSQQQQPVLPQQSPFSQQQLVLPQQQYQQVLQQQIPIVQPSV
LQQLNPKVFLQQQCNPVAMPQRLARSQMLQQSSCHVMQQQCCQQLPQIPEQSRVDVIRA
ITYSIIILQEQQQGFVQAQQQQPQQLGQGVSSQSSQQQLGQCSFQQPQQQLGQQPQQQ
VLQGTFLQPHQIAHLEVMTSIALRTLPTMCSVNVPLYSSSTTSVPFVSVGTGVGAYL

>accession|CAA44473.1|Putative LMW glutenin [Triticum turgidum subsp.
durum]
MKTFLVFALLAVVATSIAIAMDTSICIPGLERPWQQQPLPPQQTFFPQQPPFSQQQQQQPFP
QQPSFSQQQPILPQGPFPFQQTQPVLPPQQSPFSQQQLLILPPQQQQQLPQQQISIVQPSV
LQQLNPKVFLQQQCSVAIPQRLARSQMWQQSSCHVMQQQCCQQLSQUIPEQSRDAIRA
ITYSIIILQEQQQGSQQQQPQQSGQGVSSQSSQQQLGQCSFQQPQQQLGQQPQQQQVQ
QGTFLQPHQIAHLEVMTSIALRTLPTMCSVNVPLYSSSTTSVPFVGV

>accession|CAA43361.1|Allergen HMW glutenin subunit 1By9 [Triticum
aestivum]
MAKRLVLFATVVITLVALTAAEGEASRQLQCERELQESSLEACRQVVDQQLAGRLPWSTG
LQMRCCQQLRDVSAKCRPVAVSQVVRQYEQTVVPPKGGSFYPGETTPLQQLQVIFWGT
SQTQVQGYPSVSSPQQGPPYYPGQASPQQPGQGGQPGKWQELGQGGQGYPTSLHQSGGQ
QGYYPSSLQPPGQGGQIGQGQQGYPTSLQPPGQGGQIGQGQQGYPTSPQHPGQRQQPG
QGQQIGQGQQLGQGRQIGQGQQSGQGQQGYPTSPQQLGQGQQPGWQQSGQGQQGYPT
SQQQPGQGQQGYPASQQQPGQGQQGYPASQQQPGQGQQGYPASQQQPGQGQQGHYLA
SQQQPGQGQQRHYPASLQPPGQGQQGHYTASLQPPGQGQQGHYPASLQQVGGQQIGQLG
QRQQPGQGQQTRQGQQLEQGQQPGQGQQTRQGQQLEQGQQPGQGQQGYPTSPQQSGGQ
QPGQSQPPGQGQQGYSSSLQPPGQGLQGHYPASLQPPGQGHPGQRQQPGQGQQPEQGQ
PGQGQQGYPTSPQQPGQKQLGQGQQGYPTSPQQPGQGQQPGQGQQGHCPTSPQQTGQ
AQQPGQGQQIGVQQPGQGQQGYYPISLQQSGQGQQSGQGQQSGQHQLGQGQQSGQEQQ
GYDNPYHVNTTEQQTASPKVAKVQQPATQLPIMCRMEGGDALSASQ

>accession|CAA50325.1|Allergen major allergen [Corylus avellana]
MGVFNYEAEETTSVIPAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFTYSYTVIEGDVLDGDKLEKVCHELKIVAAPGGGSILKISSK
FHAEGDHEINAEIEIKGAKEMAELLLRAVETYLLAHSAEYN

>accession|CAA50326.1|Allergen major allergen [Corylus avellana]
MGVFNYEVEETPSVISAARLFKSYVLDGDKLIPKVAPQAITSVENVGGNGGPGTIKNITFG

EGSRYKYVKERVDEVDNTNFKYSYTVIEGDVLGDKLEKVCSELKIVAAPGGGSTLKISSK
FHAKGDHEINAEEMKGAKEMAELLLRAVETYLLAHSAEYN

>accession|CAA50327.1|Allergen major allergen [Corylus avellana]
MGVFNYEVETPSVIPAAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFTYSYTVIEGDVLGDKLEKVCHELKIVAAPGGGSILKISSK
FHAKGDHEINAEEMKGAKEMAELLLRAVETYLLAHSAEYN

>accession|CAA50328.1|Allergen major allergen [Corylus avellana]
MGVFNYEVETPSVIPAAARLFKSYVLDGDKLIPKVAPQAITSVENVEGNGGPGTIKNITFG
EGSRYKYVKERVDEVDNTNFKYSYTVIEGDVLGDKLEKVCSELKIVAAPGGGSILKISSK
FHAKGDHEINAEEMKGAKEMAELLLRAVETYLLAHSAEYN

>accession|CAA23681.1|Allergen Ovalbumin-like protein [Gallus gallus]
MGSIAAASMEFCFDVFKELKVHHANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVRF
DKLPGFGDSIEAQCGTSVNVHSSLRDILNQITKPNVDVYSFSLASRLYAEERYPILPEYFQ
CVKELYRGGLEPINFQTAADQARELINSWVESQTN

>accession|CAA23711.1|Allergen Lysozyme-like protein product [Gallus
gallus]
MRSLLILVLCFLPLAALGKVFGRCELAAMKRHGLDNYRGYSLGNWVCVAKFESNFNTQA
TNRNTDGSTDYGILQINSRWWCNDGRTPGSRNLCNIPCSALLSSDITASVNC AKKIVSDG
NGMSAWVAWRNRCKGTDVQAWIRGCR L

>accession|CAA43098.1|Allergen preproalbumin (serum albumin) [Gallus
gallus]
MKWVTLISFIFLFSATSRLQRFARDAEHKSEIAHRYNDLKEETFKA VAMITFAQYLQR
CSYEGLSKLVKDVVDLAQKCVANEDAPECSKPLPSIILDEICQVEKL RDSYGAMADCCSK
ADPERNECFLSFKVSPDFVQPYQRPASDVICQEYQDNRVSF LGHFIYSVARRHPFLYAP
AILSFAVDFEHALQSCCKESDVGACLDTKEIVMREKAKGVS VKQQYFCGILKQFGDRVFQ
ARQLIYLSQKYPKAPFSEVSKFVHDSIGVHKECCEGDMVECMDDMARMMSNLCSQQDVF S
GKIKDCCEKPIVERSQCIMEAEFDEKPADLPSLVEKYIEDKEVCKSF EAGHDAFMAEFVY
EYSRRHPEFSIQLIMRIAKGYESLLEKCKTDNPAECYANAQEQLNQHIKETQDVVKTNC
DLLHDHG EADFLKSILIRYTKKMPQVPTDLLLETGKKMTTIGTKCCQLGEDRRMACSEGY
LSIVIHDTCRKQETTPINDNVSQCCS QLYANRRPCFTAMGVDTKYVPPFPNPMF SFDEK
LCSAPAEEREVGMKLLINLIKRPQMTEEQIKTIADGFTAMVDKCKQSDINTCFGEEG
ANLIVQSRATLGIGA

>accession|MEHB2|Putative melittin, minor - honeybee [Apis mellifera]
GIGAVLKVLTTGLPALISWISRKKRQQ

>accession|P23110.1|Putative Albumin-8 precursor (Methionine-rich 2S
protein) (SFA8) [Helianthus annuus]
MARFSIVFAAAGVLLLVAMAPVSEASTTTIITTIIEENPYGRGRTE SGCYQQMEEAEMLN
HCGMYLMKNL GERSQVSPRMREEDHKQLCCMQLKNLDEKCMCPA IMMMLNPEMPWIRMRDQ
VMSMAHNLP IECNLMSQPCQM

>accession|P04403.2|Allergen 2S sulfur-rich seed storage protein
precursor (Allergen Ber e 1) [Bertholletia excelsa]
MAKISVAAAALLVLMALGHATAFRATVTTTTVVEEENQEECREQMQRQ QMLSHCRM YMRQQ
MEESPYQTM PRRGMEPHMSECCEQLEGMD ESCRCEGLRMMMMRMQQEEMQPRGEQMRRMM
RLAENIPSR CNLSPMRC PMGGSIAGF

>accession|P27759.1|Allergen Pollen allergen Amb a 1.1 precursor (Antigen E) (AgE) (Antigen Amb a I) [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLQPVRS AEDLQEILPVNETRRLTTS GAYNIIDGCWRGKADW
AENRKALADCAQGF GKGTVGGKGD IYTVTSELDDD VANPKEGTLRF GAAQNRPLWII FE
RDMVIRLDKEMVVNSDKTIDGRGAKVEIINAGFTLNGVKNV I IHNINMHDVKVNP GGLIK
SNDGPAAPRAGSDGDAISISGSSQI WIDHCSLSKSV DGLVDAKLGTT RRLTVSNSLFTQH Q
FVLLFGAGDENIEDRGLATVAFNTFTDNVDQRMPCRHRGFFQV VNNNYDKWGSYAIGGS
ASPTILSQGNRFCAPDERSKKNVLGRHG EAAAESMKWNWR TNKDVL ENGAIFVASGVDPV
LTPEQSAGMIPAEPGESALSLTSSAGVLS CQPGAPC

>accession|P27760.1|Allergen Pollen allergen Amb a 1.2 precursor (Antigen E) (Antigen Amb a I) (AaBA protein) [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLQPVRS AEDVEEFLPSANETR RSLKACEAHNIIDKCWRCKA
DWANNRQALADCAQGF AKGTYGGKHGDVYTVTSDKDDD VANPKEGTLRF AAAQNRPLWII
FKRNMVIHLNQELVVNSDKTIDGRGVKNIVNAGL TLMNVKNI I IHNINIHDIKVCPGGM
IKSNDGPPILRQOSDGDAINVAGSSQI WIDHCSLSKASDGLLDITL GSSHVTVS NCKFTQ
HQFVLLL GADDTYQDKGMLATVAFNMFTDHDVDQRMPCRFRGFFQV VNNNYDRWGTYAIG
GSSAPTILSQGNRFFAPDDI I KKNVLARTGTGNAESMSW NWRTRDRDLENGAIFLPSGSD
PVLTP EQKAGMIPAEPGEAVLRLTSSAGVLS CHQGAPC

>accession|P27761.1|Allergen Pollen allergen Amb a 1.3 precursor (Antigen E) (Antigen Amb a I) [Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGF AKGTYGGKWGDVYTVTSNLDDD VANPKEGTLRF AAAQNRPLWII F
KNDMVINLNQELVVNSDKTIDGRGVKVEI INGGLTLMNVKNI I IHNINIHDVKVLP GGM I
KSNDGPPILRQASDGD TINVAGSSQI WIDHCSLSKSF DGLVDVTLGSTHVTI SNCKFTQQ
SKAILLGADDTYQDKGMLATVAFNMFTDHDVDQRMPCRFRGFFQV VNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQ I KKNVLARTGTGAAESMAW NWRSDKDLENGAIFVTS GSDP
VLTVPQ SAGMIPAEPGEAAIKLTSSAGVFS CHPGAPC

>accession|P28744.1|Allergen Pollen allergen Amb a 1.4 precursor (Antigen E) (Antigen Amb a I) [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLQPVRS AEDLQOILPSANETRSLTTCGTYNIIDGCWRGKAD
WAENRKALADCAQGF AKGTIGGKGD IYTVTSELDDD VANPKEGTLRF GAAQNRPLWII F
ARDMVIRLDRELA INNDKTIDGRGAKVEI INAGFAIYNVKN I IHN IIMHDIVVNP GGLI
KSHDGGPPVPRKGS DGAIGISGSSQI WIDHCSLSKAVDGLIDAKHGSTHFTVSNCLFTQH
QYLLLFWDFDERGMLCTVAFNKFTDNVDQRM PNLRHGFVQV VNNNYERWGSYALGGSAGP
TILSQGNRFLASDIKKEVVG RYGESAMSESINW NWRSYMDVFENGAIFVPSGVDPVLTPE
QNAGMIPAEPGEAVLRLTSSAGVLS CQPGAPC

>accession|P27762.1|Allergen Pollen allergen Amb a 2 precursor (Antigen K) (Antigen Amb a II) [Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQ GCEAHNIIDKCWRCKPD
WAENRQALGNCAQGF GKATHGGKWGD IYMVTS DQDDDVVNPKEGTLRF GATQDRPLWII F
QRDMIIYLQ QEMVVTSDKTIDGRGAKVELVYGGITLMNVKNV I IHNIDIHDV RVLPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDIWIDHCTLSKSF DGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPPCRFRGFFQV VNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPEWMTW NWRQNDVLENGAIFVASGSDP
VLTAEQ NAGMMQAEPGDMVPQLTMNAGVLTCS PGAPC

>accession|P22284.1|Putative Pollen allergen KBG 31 precursor (Pollen allergen Poa p 9) (Poa p IX) [Poa pratensis]
MDKANGAYKTALKAASAVAPAEKFPVFQATFDKNLKEGLSGPDAVGF AKKLDAFIQTSYL
STKAAEPKEKFDL FVLSL TEVLRFMAGAVKAPPASKFPAK PAKVAAYTPAAPAGAAPKA

TTDEQKLIKINVGFKAAVAAAAGVPAASKYKTFVATFGAASNKAFAEALSTEPKGAAVA
SSKAVLTSKLDAAAYKLAYKSAEGATPEAKYDAYVATLSEALRIIAGTLEVHGVKPAEEV
KAIPAGELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYQSYKFI
ALEAAVKQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAPAAVTTGATSAVGAA
TGAATAAAGGYKV

>accession|P22285.1|Putative Pollen allergen KBG 41 precursor (Pollen
allergen Poa p 9) (Poa p IX) [Poa pratensis]

MAVHQYTVALFLAVALVAGPAASYAADVGYGAPATLATPATPAAPAAGYTTPAAPAGAAPK
ATTDEQKLIKINAGFKAAVAAAAGVPAVDKYKTFVATFGTASNKAFAEALSTEPKGAAA
ASSNAVLTSKLDAAYKLAYKSAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAGEE
VKAI PAGELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYQSYKFI
PALEAAVKQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAPAAVTTATATGAVGA
ATGAVGAATGAATAAAGGYKTGAATPTAGGYKV

>accession|P22286.1|Putative Pollen allergen KBG 60 precursor (Pollen
allergen Poa p 9) (Poa p IX) [Poa pratensis]

MAVQKYTVALFLVALVVGPAASYAADLSYGAPATPAAPAAGYTTPAAPAGAAPKATTDEQK
MIEKINVGFKAAVAAAAGVPAANKYKTFVATFGAASNKAFAEALSTEPKGAAVDSSKAAL
TSKLDAAAYKLAYKSAEGATPEAKYDDYVATLSEALRIIAGTLEVHGVKPAEEVKATPAG
ELQVIDKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYQSYKFI PALEAAV
KQSYAATVATAPAVKYTVFETALKKAITAMSQAQKAAPAAAATGTATAAVGAATGAATA
AAGGYKV

>accession|P02878.1|Allergen Pollen allergen Amb a 5 (Amb a V) (Allergen
Ra5) [Ambrosia artemisiifolia (elatior)]

LVPCAWAGNVCGEKRAYCCSDPGRYCPWQVVCYESSEICSKKCGK

>accession|P10414.2|Putative Pollen allergen Amb t 5 precursor (Amb t V)
(Allergen Ra5G) [Ambrosia trifida]

MKNIFMLTLFILIIITSTIKAIGSTNEVDEIKQEDDGLCYEGTNCGKVGKYCCSPIGKYCV
CYDSKAICNKNCT

>accession|P20723.1|Putative RecName: Full=Enterotoxin type D; AltName:
Full=SED; Flags: Precursor [Staphylococcus aureus]

MKKFNILIALLFFTSLSVISPLNVKANENIDSVKEKELHKKSELSSTALNNMKHSYADKNP
IIGENKSTGDQFLENTLLYKFFFTDLINFEDLLINFNSKEMAQHFKSKNVDVYPIRYSIN
CYGGEIDRTACTYGGVTPHEGNLKERKKIPINLWINGVQKEVSLDKVQTDKKNVTVQEL
DAQARRYLQKDLKLYNNDTLGGKIQRGKIEFDSSDGSKVSYDLDFVKGDFPEKQLRIYSD
NKTLSSTEHLHIDIYLYEK

>accession|P02229.2|Putative Globin CTT-III precursor (Erythrocrucorin
III) [Chironomus thummi thummi]

MKFLILALCFAAASALSADQISTVQASFDKVKGDPVGILYAVFKADPSIMAKFTQFAGKD
LESIKGTAPFEIHANRIVGFFSKIIGELPNIEADVNTFVASHKPRGVTHDQLNNFRAGFV
SYMKAHTDFAGAEAAWGATLDTFFGMIFSKM

>accession|P02230.1|Putative Globin CTT-IV precursor [Chironomus thummi
thummi]

MKLLILALCFAAASALTADQISTVQSSFAGVKGDAVGILYAVFKADPSIQAKFTQFAGKD
LDSIKGSADFSAHANKIVGFFSKIIGDLPNIDGDVTTFVASHTPRGVTHDQLNNFRAGFV
SYMKAHTDFAGAEAAWGATLDAFFGMVFAKM

>accession|P02227.1|Putative Globin CTT-VIII [Chironomus thummi thummi]

AVTPMSADQLALFKSSWNTVKHNEVDILYAVFKANPDIQAKFPQFAGKDLDSIKDSADFA
VHSGRIVGFFSEVIGLIGNPENRPALKTLIDGLASSHKARGIEKAQFEFRASLVDYLSH
HLDWNDTMKSTWDLALNNMFFYILHALEVAQ

>accession|P12548.1|Putative Globin CTT-VIIB-3 precursor [Chironomus
thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNESNASAVNSLVSKLGGDDHKARGVSAAQ
FGEFRTALVAYLSNHVSWGDNVAAAWNKALDNTYAIIVPRL

>accession|P12549.1|Putative Globin CTT-VIIB-6 precursor [Chironomus
thummi thummi]
MKFFAVLALCIVGAIASPLTADEASLVQSSWKAVSHNEVEILAAVFAAYPDIQNKFSQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNDSNAAAVNSLVSKLGGDDHKARGVSAAQ
FGEFRTALVAYLQANVSWGDNVAAAWNKALDNTFAIVPRL

>accession|P12550.1|Putative Globin CTT-VIIB-7 precursor [Chironomus
thummi thummi]
MKFFAVLALCVVGAIASPLSADEAAIVKSSWDQVKHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTAAFATHATRIVSFFTEVISLSGNQANLSAVYALVSKLGVDDHKARGISAAQ
FGEFRTALVSYLQAHVSWGDNVAAAWNHALDNTYAVALKSLE

>accession|P02231.1|Putative Globin CTT-IIIA [Chironomus thummi thummi]
VATPAMPSTDAQVAAVKGDWEKIKGSGVEILYFFLNKFPGNFPMFKKLGNDLAAAKGTA
EFKDQADKIIAFLQGVIEKLGSDMGGAKALLNQLGTSHKAMGITKDQFDQFRQALTELLG
NLGFGGNIGAWNATVDLMFHVIFNALDGTVP

>accession|P02228.1|Putative Globin CTT-X [Chironomus thummi thummi]
DPEWHTLDAHEVEQVQATWKAVSHDEVEILYTVFKAHPDIMAKFPKFAGKDLEAIKDTAD
FAVHASRIIGFFGEYVTLGSSGNQAAIRTLHDLGVFHKTRGITKAQFGEFRETMAYL
KGHNKWNADISHSWDDAFDKAFSVIFEVLES

>accession|P25974.1|Putative RecName: Full=Beta-conglycinin, beta chain;
Flags: Precursor [Glycine max]
MMRVRFPLLVLGTVFLASVCVSLKVREDENNPFYFRSSNSFQTLFENQNVRIIRLLQRFN
KRSPQLENLRDYRIVQFQSKPNTILLPHHADADFLLFVLSGRAILTLVNNDDRDSYNLHP
GDAQRI PAGTYYLVNPHDHQNLKIIKLAIPVKNKPGRYDDFFLSSTQAQQSYLQGFSHNI
LETSFHSEFEIEINRVLFGEIEEQRQEGVIVELSKEQIRQLSRRAKSSSRKTISSEDEPF
NLRSRNPIYSNNGKFFFEITPEKNPQLRDLDFLSSVDINEGALLLPHFNSKAIVILVIN
EGDANIELVGIKEQQQKQKQEEPLEVQRYRAELSEDDVFVIPAAYPFVFNATSNLNLFLA
FGINAENNQRNFLAGEKDNVVRQIERQVQELAFPGSAQDVERLLKKQRESYFVDAQPQQK
EEGSKGRKGPFPFPSILGALY

>accession|P24337.1|Putative RecName: Full=Hydrophobic seed protein;
Short=HPS; AltName: Allergen=Gly m 1 [Glycine max]
ALITRPSCPDLSICLNILGGSGLGTVDCCALIGGLGDIEAIVCLCIQLRALGILNLNRNL
QLILNSCGRSYPSNATCPRT

>accession|P16348.1|Allergen Aspartic protease inhibitor 11 (Cathepsin D
inhibitor PDI) (Allergen Sola t 2) [Solanum tuberosum]
ESPLPKPVLDTNGKELNPSSYRIISIGRGALGGDVYLGKSPNSDAPCPDGVFRYNSDVG
PSGTPVRFIPLSGGIFEDQLLNIQFNIAIVKLCVSYTIWKVGNLNAYFRTMLLETGGTIG
QADSSYFKIVKLSNFGYNLLYCPITPPFLCPCFRDDNFCAKVGVVIQNGKRRLALVNENP
LDVLFQEV

>accession|P01005.1|Allergen Ovomuroid precursor (Allergen Gal d 1) (Gal d I) [Gallus gallus]

MAMAGVFLVLSFVLCGFLPDAAFGEVDCSRFPNATDKEGKDVLCNKDLRPICGTDGVT
YTNDCLLCAYSIEFGTNIKEHDGECKETVPMNCSSYANTTSEDGKVMVLCNRAFNPVCG
TDGVTYDNECLLCAHKVEQGASVDKRHDGGCRKELAAVSVDCSEYKPKDCTAEDRPLCGS
DNKTYGNKCNFCNAVVESNGTLTLSHFGKC

>accession|P02754.3|Allergen Beta-lactoglobulin precursor (Beta-LG) (Allergen Bos d 5) [Bos taurus]

MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQKWENGECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
FCMENSAAEPEQSLACQCLVVRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCHI

>accession|P14946.2|Allergen Pollen allergen Lol p 1 precursor (Lol p I) (Allergen R7) [Lolium perenne]

MASSSVLLVVALFAVFLGSAHGIKVPPGNITAEYGDKWLDKSTWYKPTGAGPKDN
GGACGYKNVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLSDGHAFGSMKKGEEQNVRSGELELQFRRVKCKYPDDTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGDKWIELKESWGAVWRIDTPDKLTGPFVRYTTEG
GTKSEFEDVIPEGWKADTSYSAK

>accession|P14947.1|Allergen Pollen allergen Lol p 2-A (Lol p II-A) [Lolium perenne]

AAPVEFTVEKGSDEKNLALSIIKYNKEGDSMAEVELKEHGSNEWLALKKNGDGVWEIKSDK
PLKGPFRFRVSEKGMNRNVFDDVVPADFKVGTTYKPE

>accession|P14948.1|Putative Pollen allergen Lol p 3 (Lol p III) [Lolium perenne]

TKVDLTVEKGSDAKTLVLNIIKYTRPGDTLAEVELRQHGSSEEWEPMTKKGNLWEVKSAPL
TGPMNFRFLSKGGMKNVFDEVIPTAFTVVGKTYTPEYN

>accession|P00698.1|Allergen Lysozyme C precursor (1,4-beta-N-acetylmuramidase C) (Allergen Gal d 4) (Gal d IV) [Gallus gallus]

MRSLLILVLCFLPLAALGKVFGRCELAAMKRHGLDNYRGYSLGNWVCAAKFESNFNTQA
TNRNTDGSTDYGILQINSRWWCNDGRTPGSRNLCNIPCSALLSSDITASVNCAMKIVSDG
NGMNAWVAWRNRCKGTDVQAWIRGRL

>accession|P01502.1|Putative Melittin [Apis dorsata]

GIGAILKVLSTGLPALISWIKRKRQE

>accession|P16312.1|Allergen Major mite fecal allergen Der m 1 (Der m I) [Dermatophagoides microceras]

TQACRINSGNVPSELDLRLSLRTVTPIRMQG

>accession|P02761.1|Putative Major urinary protein precursor (MUP) (Alpha-2u-globulin) (15.5 kDa fatty acid binding protein) (15.5 kDa FABP) (Alpha(2)-euglobulin) (Allergen Rat n 1) (Rat n I) [Rattus norvegicus]

MKLLLLLLCLGLTLVCGHAEASSTRGNLDVAKLNGDWFSIVVASNKREKIEENGSMRVF
MQHIDVLENSLGFKFRIKENGEARELYLVAYKTPEDGEYFVEYDGGNTFTILKTDYDRYV
MFHLINFKNGETFQMLMVLVYGRTKDLSSDIKEKFAKLCEAHGITRDNIIDLTKTDRLQAR

G

>accession|P12547.2|Putative Oryzin precursor (Alkaline proteinase) (ALP) (Aspergillus proteinase B) (Aspergillopeptidase B) [Aspergillus oryzae]
MQSIKRTLLLLGAILPAVLGAPVQETRRAAEKLPKGYIVTFKPGIDEAKIQEHTTWTATNI
HQRSLERRGATGGDLPVGIERNYKINKFAAYAGSFDDATIEEIRKNEDVAYVEEDQIYYL
DGLTTQKSAPWGLGSIHKGQQSTDYIYDTSAGEGTYAYVVDSGVNVDDHEEFEGRASKAY
NAAGGQHVDSIGHGTHVSGTIAGKTYGIKKASILSVKVFQESSSTSVILDGFNWAAND
IVSKKRTSKAAINMSLGGGYSKAFNDAVENAFEQGVLSVVAAGNENS DAGQTS PASAPDA
ITVAAIQKSNRASFSNFGKVVDFAPGQDILSAWIGSSSATNTISGTSMATPHIVGLSL
YLAALENLDGPAAVTKRIKELATKDVVKDVKGSPNLLAYNGNA

>accession|P01012.2|Allergen Ovalbumin (Plakalbumin) (Allergen Gal d 2) (Gal d II) [Gallus gallus]
MGSIGAASMEFCFDVFKELKVHHANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVRF
DKLPGFGDSIEAQCGTSVNVHSSLRDILNQITKPNVDVYSFSLASRLYAEERYPILPEYLQ
CVKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSVDSQTAMVLVNAIV
FKGLWEKAFKDEDTQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPPASGTM
SMLVLLPDEVSGLEQLESINFEKLTWETSSNVMEERKIKVYLPRMKMEEKYNLTSVLMMA
MGITDVFSSANLSGISSAESLKISQAVHAAHAEINEAGREVVGSAEAGVDAASVSEEF
ADHPFLFCIKHIATNAVLFFGRCVSP

>accession|P22895.1|Putative P34 probable thiol protease precursor [Glycine max]
MGFLVLLLFSLGLSSSSSISTHRSIDLDLTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNNSNYIRDMNANRKS PSHSHRLGLNKFADITPQEF SKKYLQAPKDV SQQIKM
ANKKMKKEQYSCDHPPASWDWRKKG VITQVKYQGGCGRGWAFSATGAIEAAHAIATGDLV
SLSEQELVDCVEESESGSYNGWQYQSF EWVLEHGGIATDDDYPYRAKEGRCKANKIQDKVT
IDGYETLIMSDESTESETEQAFLSAILEQPI SVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGVYWIAKNSWGF DWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDH SPL

>accession|P00784.1|Allergen Papain precursor (Papaya proteinase I) (PPI) (Allergen Car p 1) [Carica papaya]
MAMIPSISKLLFVAICLFVYMGLSFGDFSIVGYSQNDLTSTERLIQLFESWMLKHNKIYK
NIDEKIYRFEIFKDNLKYIDETNKKNNNSYWLGLNVFADMSNDEFKEKYTGSIAGNYTTTE
LSYEEVLNDGDVNIPEYVDWRQKGA VTPVKNQGSCGSCWAFSAVVTIEGIIKIRTGNLNE
YSEQELLDCCRYSYCGNGGYPWSALQLVAQYGIHYRNTYPYEGVQRYCRSREKGPYAAKT
DGVRQVQPYNEGALLYSIANQPVS VVLEAAGKDFQLYRGGIFVGP CGNKVDHAVA AVGYG
PNYILIKNSWGTGWGENGYIRIKRGTGNSYGVCGLYTSSSFYPVKN

>accession|P02622.1|Allergen Parvalbumin beta (Allergen Gad c 1) (Gad c I) (Allergen M) [Gadus callarias]
AFKGILSNADIKAAEAACFKEGSFDEDEGFYAKVGLDAFSADELKCLKFKIADEDKEGFIEE
DELKFLFLIAFAADLRALTDAETKAF LKAGDSGDGKIGVDEF GALV DKGWAKG

>accession|P02620.1|Putative RecName: Full=Parvalbumin beta [Merluccius merluccius]
AFAGILADADITAALAAACKAEGSFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKFLQNF SAGARALTDAETATFLKAGDSGDGKIGVEEFAAMVKG

>accession|P05946.1|Putative RecName: Full=Sarcoplasmic calcium-binding protein 1; AltName: Full=Sarcoplasmic calcium-binding protein I; Short=SCP I [Pontastacus leptodactylus]
AYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLALRNTLIEGRGEFNEAAYANNQKIMSNL
WNEIAELADFNKDGEVTIDEFKKAVQNV CVGKAFATFPAAFKVFIANQFKTV D VNGDGLV

GVDEYRLDCISRSFAFIKEIDDAYNKLATDADKKAGGISLARYQELYAQFISNPDESAN
AVYLFGLKEVQ

>accession|P00780.1|Allergen RecName: Full=Subtilisin Carlsberg; Flags:
Precursor [Bacillus licheniformis]
MMRKKSFWLGLTAFMLVFTMAFSDSASAAQPAKNVEKDYIVGFKSGVKTASVKKDIIKE
SGGKVDKQFRIINAAKAKLDKEALKEVKNPDVAYVEEDHVAHALAQTVPYGIPLIKADK
VQAQGFKGANVKVAVLDTGIQASHPLNVVGGASFVAGEAYNTDGNHGHGTHVAGTVAALD
NTTGVLGVAPSVSLYAVKVLNSSSGSTYSGIVSGIEWATTNGMDVINMSLGGPSGSTAMK
QAVDNAYARGVVVVAAGNSGSSGNTNTIGYPAKYDSVIAVGAVDSNSNRASFSSVGAEL
EVMAPGAGVYSTYPTSTYATLNGTSMASPHVAGAAALILSKHPNLSASQVRNRLSSTATY
LGSSFYYGKGLINVEAAAQ

>accession|P27357.1|Putative RecName: Full=Thaumatin-like protein PWIR2;
Flags: Precursor [Triticum aestivum]
MATSPVLFLLLAVFAAGASAATFNINNCGFTIWPAGIPVGGGFALGSGQTSSINVPAGT
QAGRIWARTGCSFNNGSGSCQTGDCGGQLSCSLSGRPPATLAEYTIIGGGSTQDFYDISVI
DGFNLAMDFSCSTGDALQCRDPSCPPPQAYQHPNDVATHACSGNNNYQITFCP

>accession|P06886.1|Allergen RecName: Full=Toxic shock syndrome toxin-1;
Short=TSST-1; Flags: Precursor [Staphylococcus aureus]
MNKLLMNFFIVSPLLLATTATDFTPVPLSSNQIIKTAKASTNDNIKDLLDWYSSGSDTF
TNSEVLNLSLGMRIKNTDGSISLIIFPSPYSPAFTKGEKVDLNTKRTKKSQHTSEGT
IHFQISGVTNTEKLPTPIELPLKVKVHGKDSPLKYGPKFDDKQLAISTLDFEIRHQLTQI
HGLYRSSDKTGGYWKITMNDGSTYQSDLSKKFEYNTEKPPINIDEIKTIEAEIN

>accession|AAA28301.1|Allergen antigen 5 precursor [Dolichovespula
maculata]
MEIGGLVYLIIITIINLSFGETNNYCKIKCRKGIHTLCKFGTSMKPNCGRNVVKAYGLT
NDEKNEILKRHNDFRQNVAKGLETRGKPGQPAPAKNMNVLVWNEDELAKIAQTWANQCDFN
HDDCRNTAKYQVGQNIASSTTATQFDRPSKLIKQWEDEVTEFNKYVGLQNSNFRKVGHY
TQMVGKTKKEIGCGSIKYIEDNWyTHYLVCNYGPGGNDFNQPIYERK

>accession|AAA28303.1|Allergen allergen 5 [Dolichovespula arenaria]
NNYCKICPKGHTLTKYGTSMKPNCGGKIVKSYGVTNDEKNEIVKRHNEFRQKVAQGLE
RGNPQPAPAKNMNLLVWNEDELAKIAQTWANQCNFQHDQCRNTAKYPVGQNVAIASSTGN
SYQTMSYLIKMWEDVVDYDYNPHKDLMHNNFSKVGHYTQMVGKTKKEIGCGSVKYIENKWH
THYLVCNYGPAGNYMNQPVYERK

>accession|AAA29793.1|Allergen allergen 5 [Polistes annularis]
SSQGVYCKIKCPSGIHTVCQYGESTKPSKNCAGKVIKSVGPTEEEKLIVSEHNRFRQK
VAQGLETRGNPQPAPASDMNDLVWNEDELAHIAQVWASQCQFLVHDKCRNTAKYPVGQNI
AYAGGSNLPDVVSLIKLWENEVKDFNYNTGITKQNFQKIGHYTQMVGKTKKEIGCGSLKY
MENNMQNHYLICNYGPAGNYLGLPYTKK

>accession|AAA30333.1|Allergen allergen 5 [Vespula vulgaris]
MEISGLVYLIIIVTIIDLPYKANNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLT
KQEKQDILKEHNDFRQKIARGLETRGNPQPAPAKNMKNLVWNEDELAHIAQVWANQCQY
HDTCDRVAKYQVGQNVALTGSTAAKYDDPVKLVKMWEDEVKDYNNPKKFSGNDFLKTGHY
TQMVGKTKKEIGCGSIKYIQEKWHKHLYLVCNYGPGSGNFMNEELYQTK

>accession|AAA51411.1|Allergen albumin [Bos taurus]
MKWVTFISLLLLFSSAYSRGVFRRDTHKSEIAHRFKDLGEEHFKGLVLIAFSQYLQCCPF
DEHVKLVELTEFAKTCVADESHAGCEKSLHTLFGDELCKVASLRETYGDMADCCQEP

ERNECFLSHKDDSPDLPKLKPDPNTLCDEFKADEKKFWGKYLYEIAARRHPYFYAPELLYY
ANKYNGVFQECCQAEDKGACLLPKIETMREKVLASSARQRLRCASIQKFGERALKAWSVA
RLSQKFPKAEFVEVTKLVTDLTKVHKECCHGDLLCADDRADLAKYICDNQDTISSKLKE
CCDKPILLEKSHCIAEVEKDAIPENLPPLTADFAEDKDVCKNYQEAKDAFLGSFLYEYSRR
HPEYAVSVLLRLAKEYEATLECCAKDDPHACYSTVFDKLLKHLVDEPQNLIKQNCDFEKL
LGEYGFQNALIVRYTRKVPQVSTPTLVEVSRSLGKVGTRCCTKPESEMPCTEDYLSLIL
NRLCVLHEKTPVSEKVTKCCTESLVNRRPCFSALTPDETYVPKAFDEKLFTHADICTLP
DTEKQIKQTALVELLKHKPKATEEQKLTVMENFVAFVDKCCAADDKEACFAVEGPKLVV
STQATALA

>accession|AAA62707.1|Allergen alpha-s1-casein [Bos taurus]
PQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWYY
VPLGTQYTDAPSFSDIPNPIGLENSEKTTMPLW

>accession|AAA30413.1|Allergen beta-lactoglobulin [Bos taurus]
NSAEPXQSLVCECL

>accession|AAA30429.1|Allergen alpha-S1-casein [Bos taurus]
MKLLILTCLVAVALARPKHP IKHQGLPQEVNENLLRFFVALFPEVFGKEKVNELSKDIG
SESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHIQKEDVPSERYLGYLEQLLRLKKYK
VPQLEIVPNSAEERLHSMKEGIDAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWY
YVPLGTQYTDAPSFSDIPNPIGSENSEKTTISLW

>accession|AAA30430.1|Allergen beta-casein precursor [Bos taurus]
MKVLILACLVALALARELEELNVPGEIVESLSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHFAQTQSLVYPPFGPIPNSLPQNIPPLTQTPVVVPPFLQPEVLGVSKVKEAMAPK
HKEMPFKYPVEPFTESQSLTLTDVENLHLPLLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVVPQKAVPYPQRDMP IQAFLLYQQPVLGPVRGPFPIIV

>accession|AAA30431.1|Allergen beta-casein [Bos taurus]
MKVLILACLVALALARELEELNVPGEIVESLSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHFAQTQSLVYPPFGPIHNSLPQNIPPLTQTPVVVPPFLQPEVMGVSKVKEAMAPK
HKEMPFKYPVEPFTESQSLTLTDVENLHLPLPLLLQSWMHQPHQPLPPTVMFPPQSVLSL
SQSKVLPVVPQKAVPYPQRDMP IQAFLLYQEPVLPVVRGPFPIIV

>accession|AAA30433.1|Allergen kappa-casein precursor [Bos taurus]
MMKSFFLVVTTILALTLFPFLGAQEONQEPIRCEKDERFFSDKIAKYIPIQYVLSRYPYSY
LNYYQQKPVALINNQFLPYPYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHP
HPHLSFMAIPPKKNQDKTEIPTINTIASGEPTSTPTIEAVESTVATLEASPEVTESPEE
NTVQVTSTAV

>accession|AAA30478.1|Allergen alpha-s1-casein [Bos taurus]
LSKDIGSESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKIQKEDVPSERYLGYLEQLL
RLKKYKVPQLEIVPNS

>accession|AAA30615.1|Allergen alpha-lactalbumin precursor protein [Bos
taurus]
MMSFVSLLLVGLFHATQAEQLTKCEVFRELKDLKGYGGVSLPEWVCTTFHTSGYDTQAI
VQNNDSLEYGLFQINNKIWCKDDQNPSSNICNISCDKFLDDDLTDDIMCVKILDKVGI
NYWLAHKALCSEKLDQWLCEKL

>accession|AAC41616.1|Allergen major allergen I [Felis catus]
MRGALLVLLVLTQALGVKMAETCPIFYDVFFAVANGNELLLDLSLTKVNATEPERTAMK
KIQCIVENGLISRVLDDGLVMTTISSSKDCMGEAVQNTVEDLKLNTLGR

>accession|AAC37318.1|Allergen major allergen I [Felis catus]
MKGARVLLVLLWAALLLIWGGNCEICPAVKRDVDLFLTGTPDEYVEQVAQYKALPVVLENA
RILKNCVDAKMTEEDKENALSLLDKIYTSPLC

>accession|AAA32629.1|Allergen actinidin [Actinidia deliciosa]
MGLPKSFVSMSELLFFSTLLILSLAFNAKNTQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRVQVLPSPYVDWRSAGAVVDIKSQEGCGCWAFSAIATVEGINKIVTGVLIISLSEQELI
DCGRTQNTTRGCNNGGYITDGFQFIINNGGINTEENYPYTAQDGEKNVELQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVALDAAGDAFKQYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWEGEGYMRILRNVGGAGTTCGIATMPSYPVKYNNQNYPEPYSSLINPP
AFSMSKDGPPVGVEDGQRYSA

>accession|AAA32669.1|Allergen antigen E [Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFQAKGTGGKWDVYTVTSNLDDVANPKEGTLRFAAAQNRPLWIIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNI I IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGDITINVAGSSQIWIHDHCSLSKSFGLVDVTLGSTHVTI SNCKFTQQ
SKAILLGADTHVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQIKKNVLARTGTGAAESMAWNWRSKDLLENGAIFVTSGSDP
VLTVPQASAGMIPAEPGEAAIKLTSSAGVFSRPGAPC

>accession|AAA32708.1|Allergen Taka-amylase A (Taa-G1) precursor
[Aspergillus oryzae]
MMVAWWSLFLYGLQVAAPALAATPADWRSQSIYFLLTDRFARTDGGSTTATCNTADQKYCG
GTWQGIIDKLDYIQGMGFTAIWITPVTAQLPQTAYGDAYHGYWQQDIYSLNENYGTADD
LKALSSALHERGMYLMVDV VANHMGYDAGSSVDYSVFKPFSSQDYFHPFLIQNYEDQT
QVEDCWLGDNTVSLPDLDTTKDVVKNEWYDWVGSLSVSNYSIDGLRIDTVKHVQKDFWPGY
NKAAGVYICIGEVLDGDPAYTCPYQNVMDGVLNYPYIYPLLNAFKSTSGSMHDLYNMINTV
KSDCPDSTLLGTFVENHDNPRFASYTNDIALAKNVAAFIILNDGIPIIYAGQEQHAYAGN
DPANREATWASGYPTDSELYKLIASANAIRNYAISKDTGFVTKNWPIYKDDTTIAMRKG
TDGSQIVTILSNKGASGDSYTLSSLGAGYTAGQQLTEVIGCTTVTVGSDGNVPVPMAGGL
PRVLYPTEKLAGSKICSSS

>accession|AAA16522.1|Allergen profilin [Betula pendula]
MSWQTYVDEHLMCDIDGQASNSLASAIVGHGDSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMQEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLIDQGL

>accession|AAA32970.1|Putative amylase/protease inhibitor [Hordeum
vulgare]
MARAQVLLMAAALVLMMLTAAPRAAVALNCGQVDSKMKPCLTYVQGGPGPSGECNGVRDL
HNQAQSSGDRQTVCNCLKGIARGIHNLNLNNAASIPSKCNVNPYTIISPDIIDCSRIY

>accession|AAA63278.1|Allergen pollen allergen [Lolium perenne]
ALFAVFLGSAHGIKVPVPPGNITAEYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVDK
APFNGMTGCGNTPIFKDGRCGSCFEIKCTKPESCSGEAVTVTITDDNEEPIAPYHFDLS
GHAFGSMAKKGEEQNRSAGELELQFRRVKCKYPDDTKPTFHVEKGSNPNYLAILVKYVD
GDGDVVAVDIKEKGDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEGGTKSEVEDVIP
EGWKADTSYSAK

>accession|AAA63279.1|Allergen pollen allergen [Lolium perenne]
MASSSVLLVVALFAVFLGSAHGIKVPVPPGNITAEYGDKWLDAKSTWYGKPTGAGPKDN

GGACGYKNVDKAPFNGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLSGHAFGSMAKKGEEQNVRSAGELQLQFRRVKCKYPDDTKPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGDKWTTELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEFEDVIPEGWKADTSYSAK

>accession|AAA33493.1|Putative phospholipid transfer protein precursor
[Zea mays]

MARTQQLAVVATAVVALVLLAAATSEAAISCGQVASAIAPCISYARGQGSAGCCSGV
RSLNNAARTTADRRAACNCLKNAAGVSGLNAGNAASIPSKCGVSIPYTIISTSTDCSRVN

>accession|AAA33494.1|Putative phospholipid transfer protein, partial
[Zea mays]

SCGQVASAIAPCISYARGQGSAGCCSGVRSLSLNAARTTADRRAACNCLKNAAGVSG
LNAGNAASIPSKCGVSIPYTIISTSTDCSRYSRRMHASAD

>accession|AAA33819.1|Allergen patatin [Solanum tuberosum]

MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVND
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPHIFNYSGSI
IGPMYDGKYLQLVQLEKLGETRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYSTAAAPIYFPFHYFIHTSNGDIYEFNLVDGGVATVGDPAALLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAQEAAKWGPLRWMLAIQQMTNAASSYMTD
YYISTVFQARHSQNNYLVRVQENALTGTTTMEDDASEANMELLVQVGETLLKKPVSKDSPE
TYEEALKRFAKLLSDRKKLRANKASY

>accession|AAA33947.1|Putative beta-conglycinin-alpha subunit [Glycine
max]

SKRAKSSSRKTISSEDKPFLGSRDPIYSKKGKFFFEITPEKNPQLRDLDFLSIVDMNE
GALLLPHFNASKAIVILVINEGDANIELVGLKEQQQEQQEEQPLEVRKYRAELSEQDIFV
IPAGYPVVVNATSNLNFFAIGINAENNQRNFLAGSDNVISQIPSQVQELAFPGSAQAVE
KLLKNQRESYFVDAQPNEKEEGNKGRKGPLSSILRAFY

>accession|AAB01374.1|Putative beta-conglycinin storage protein [Glycine
max]

MMRARFPLLLLGVVFLASVSVSFGIAYWEKQNP SHNCLLRSCNSEKDSYRNQACHARCNL
LKVEEEEECEEGQIPRPRPQHPERERQHGEEKEEDEGEQPRPFPPRPRQPHQEEHEQK
EEHEWHRKEEKHGKGSEEEQDEREHPRHQPHQKEEEKHEWQHKQEKHQGKESEEEEEED
QDEDEEQDKESQSESESESQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVRLQRFNKR
QQQLQNLRDYRILEFNKPNLTPHLLPHHADADYLIVILNGTAILTLVNNDDRDSYNLQSGDA
LRVPAGTTFYVVNPDNDENLRMIAGTTFYVVNPDNDENLRMITLAI PVNKPGRFESFFLS
STQAQQSYLQGF SKNILEASYDTKFEEINKVLFGREEGQQQGEERLQESVIVEISKKQIR
ELSKHAKSSSRKTISSEDKPFLGSRDPIYSNKLGLFEITQRNPQLRDLDFLSVVD MN
EGALFLPHFNASKAIVVLVINEGEANIELVGIKEQQQRQQEEQPLEVRKYRAELSEQDIF
VIPAGYPVMVNATSDLNFFAFGINAENNQRNFLAGSKDNVISQIPSQVQELAFPRSAKDI
ENLIKSQSESYFVDAQPQQKEEGNKGRKGPLSSILRAFY

>accession|AAA33964.1|Putative glycinin [Glycine max]

MGKPFFTLSLSSLCLLLLSSACFAITSSKFNECQLNNLNALEPDHRVESEGGLIETWNSQ
HPELQCAGVTVSKRTLNRNGSHLPSYLPYPQMIIVVQKGGAIGFAFPGPCPETFEKPPQQS
SRRGSRSQQLQDSHQKIRHFNEGDVLVIPLGVYPYWTYNTGDEPVVAISPLDTSNFMNQ
DQNPVRYFLAGNPDIEHPETMQQQQQKSHGGRKQGGHRQQE EGGSVLSGFSKHFLAQS
FNTNEDTAEKLRSPDDEKQIVTVEGGLSVISPKWQEQEDED EDEEYGRTPSYPPRRP
SHGKHEDDEDEDEEEDQPRPDHPPQRPSRPEQQEPRGRGCQTRNGVEENICTMKLHENIA
RPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYVVLRYNGIYSPDWNLNANSVTMTRG
KGRVVRVNCQGNVDFDGLRRGQLLVVPQNPVAVAEQGGEGGLE YVVFKTHHNAVSSYIKD

VFRVIPSEVLNSNSYNLGGQSQVRQLKYQGNSGPLVNP

>accession|AAA33965.1|Putative glycinin precursor [Glycine max]
QEDEDEDEDEEYEQTSPYPPRRPSHGKHEDDEDEDEEHHQPRPDHPPQRPSPRPEQQEPRG
RGCQTRNGVEENICTMKLHENIARPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYLV
LYRNGIYSPHWNLNANSVIYVTRGKGRVRVVCQGNPVFDGDLTRGQLLLVPQNFVVADQ
GGKQGLEIVVFKTQHNAVSSYIKDLFRAIPSEVLNSNSYNLGGQSQVRQLKYQGNSGPLLNP

>accession|AAA33966.1|Putative glycinin A-1a-B-x subunit [Glycine max]
MAKLVFSLCFLLFSGCCFAFSSREQPQNECQIQKLNALKPDNRIESEGLIETWNPNNK
PFQCAGVALSRCTLNRNALRRPSYTNQPQEIYIQQKGI FGMIYPGCPSTFEEPQQPQQR
GQSSRPQDRHQKIYNFREGDLIAVPTGVAWWMYNNEDTPVVAVSIIDTNSLENQLDQMPR
RFYLAGNQEQEFLKYQQEQGGHQSQKQKHQEEENEGGSILSGFTLEFLEHAFSVDKQIA
KNLQGENEGEDKGAIVTVKGGLSVIKPPPTDEQQQRPQEEEEEEDEKQPCKGKDKHCQRP
RGSQSKSRRNGIDETICTMRLRHNIGQTSPPDIYNPQAGSVTTATSLDFPALSWLRLSAE
FGSLRKNAMFVPHYNLNANSIIYALNGRALIQVVNCGERVFDGELQEGRVLIVPQNFVV
AARSQSDNFEYVSFKTNDTPMIGTLAGANSLLNALPEEVIQHTFNLKSQARQIKNNNPF
KFLVPPQESQKRAVA

>accession|AAA34272.1|Allergen gamma gliadin precursor [Triticum
aestivum]
MKTLLILITILAMATTIATANMQVDPSGQVQWPQQQPFQPPQFCQQPQRTIPQPHQTFH
HQPQQTFPQPQQTYPHQPPQQFPQTQQPQQPFPQPQQTFPQQPQLPFPQQPQQPFPQPQQ
PQQPFPQSQQPQQPFPQPQQFPQPQQPQQSFPQQQPAIQSFLQQMNPCKNFLLQQCN
HVSLVSSLVSIILPRSDCQVMQQQCCQLAQIPQQLQCAAHISVAHSIIMQQEQQQGVPI
LRPLFQLAQGLGIIQPQQAQLEGIRSLVLKTLPTMCNVYVPPDCSTINVPYANIDAGIG
GQ

>accession|AAA34274.1|Allergen gamma-gliadin B precursor [Triticum
aestivum]
MKTLLILITILAMAITIATANMQADPSGQVQWPQQQPFQPHQPFSSQQPQQIFPQPQQTFP
HQPQQQFPQPQQPQQQFLQPRQFPFPQQPQQPYPQQPQQPFPQTQQPQQPFPQSKQPQQPF
PQPQQPQQSFPQQQPSLIQQSLQQQLNPKNFLLQQCKPVSLVSSLWSIILPPSDCQVMR
QQCCQQLAQIPQQLQCAAHISVHHSIIMQQEQQEQLQGVQILVPLSQQQVQGGILVQGG
GIIQPQQAQLEVIRSLVLQTLPTMCNVYVPPYCYCSTIRAPFASIVASIGGQ

>accession|AAA34275.1|Allergen alpha-type gliadin precursor protein
[Triticum aestivum]
MKTFLILALLAIVATTATTAVRVVPVQLQPQNPSQQQPQEQVPLVQQQFPGQQQFPPQ
QPYPQPQPFPSQQPYLQLQPFPPQPPLPYPQPQSFPFPQQPYPQQQPQYLQPQQPISQ
QQAQQQQQQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIHASSQVLQQSTYQLLQQ
CCQQLLQIPEQSQCQAIHNVAHAIIMHQQQQQQEQKQQLQQQQQQQQQLQQQQQQQQQ
PSSQVSFQQPQQYPSQVSFQPSQLNPPQAQGSVQPQLPQFAEIRNLALQTLPAMCNVY
IPHCSTTIAPFGISGTN

>accession|AAA34276.1|Allergen pre-alpha-/beta-gliadin A-II [Triticum
aestivum]
MKTFPILALLAIVATTATTAVRVVPVQLQLQNPSQQQPQEQVPLVQEQQFQGGQQPFPQ
QPYPQPQPFPSQQPYLQLQPFPPQPQLPYPQPQPFPPQYPQPQPQYSQPQQPISQQQQ
QQQQQQQQQQILQQILQQQLIPCRDVVLQQHNIHAGSSQVLQESTYQLVQQLCCQQLWQI
PEQSRCQAIHNVVHAIILHQHQQHHHQQQQQQQQPLSQVSFQQPQQQYPSGQGGFFQPSQ
QNPQAQGSFQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>accession|AAA34279.1|Allergen alpha/beta-gliadin precursor [Triticum aestivum]
MKTFLILALVATTATTAVRVVPVQLQPKNPSQQQPQEQVPLVQQQQFPGQQQFPPQQPY
PQPQPFPSQQPYLQLQFPFPQPFLPQLPYQPQSFPPQQPYPQQRPKYLQPPQPISSQQ
AQQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVLVQQHNIAHASSQVLQQSTYQLLQQL
CCQQLLQIPEQSRCQAIHNVVHAIIMHQEQEQQQQLQQQQQQQLQQQQQQQQQQPSSQV
SFQQPQQQYPSQGSFQPSQQNPQAQGSVQPQQLPQFAEIRNLALQTLPAMCNVYIPPHC
STTIAPFGIFGTN

>accession|AAA34280.1|Allergen alpha/beta-gliadin precursor [Triticum aestivum]
MKTFLILVLLAIVATTATTAVRFPVVPVQLQPNPSQQQPQEQVPLVQQQQFLGQQQFPPQ
QPYPQPQPFPSQLPYLQLQFPFPQPLPYSQPQPFQPPYPQPQPQYSQPQQPISSQQQQ
QQQQQQQQQQQQQQILQQILQQQLIPCMDVVLQQHNIAGRSQVLQQSTYQLLQELCCQHL
WQIPEQSQCQAIHNVVHAIILHQQKQQQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQA
QGSVQPQQLPQFEEIRNLALQTLPAMCNVYIPPYCTIAPFGIFGTN

>accession|AAA34281.1|Allergen pre-alpha-/beta-gliadin A-I [Triticum aestivum]
MKTFLILALLAIVATTATTAVRVVPVQLQPNPSQQQPQEQVPLVQQQQFLGQQQFPPQ
QPYPQPQPFPSQQPYLQLQFPFLPQLPYSQPQPFQPPYPQPQPQYSQPQQPISSQQQQ
QQQQQQQQQQQQQQIQQILQQQLIPCMDVVLQQHNIHVHGSQVLQQSTYQLLQELCCQH
LWQIPEQSQCQAIHNVVHAIILHQQKQQQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQA
AQGSVQPQQLPQFEEIRNLARK

>accession|AAA34282.1|Allergen pre-alpha-/beta-gliadin A-IV [Triticum aestivum]
MKTFLILALRAIVATTATIARVVPVQLQPNPSQQQPQKQVPLVQQQQFPGQQQFPPQ
QPYPQQQPFPSQQPYMQLQFPFPQPLPYPQPQLPYPQPQPFQPPQSYQPQPQYSQPQQP
ISQQQQQQQQQQQQQQQQILQQILQQQLIPCRDVLVQQHSIAHGSSQVLQQSTYQLVQQFC
CQQLWQIPEQSRCQAIHNVVHAIILHQQQQQQQQQQQQQQPLSQVCFQQSSQQQYPSGQG
SFQPSQQNPQAQGSVQPQQLPQFEEIRNLALETLPAMCNVYIPPYCTIAPVGFIFGTN

>accession|AAA34283.1|Allergen pre-alpha-/beta-gliadin A-III [Triticum aestivum]
MKTFLILALLAIVATTATSARVVPVQLQPNPSQQQPQEQVPLMQQQQFPGQQEQFPP
QQPYPHQQPFPSQQPYQPQPFPPQLPYPQTQPFPPQQPYPQPQPQYPQPQQPISSQQQAQ
QQQQQQQTLLQILQQQLIPCRDVLVQQHNIAHASSQVLQQSSYQLLQQLCCQQLFQIPEQ
SRCQAIHNVVHAIILHHHQQQQQPSSQVSQYQPPQEQYPSGQVSFQSSQQNPQAQGSVQP
QQLPQFQEIRNLALQTLPAMCNVYIPPYCSTTIAPFGIFGTN

>accession|AAA34284.1|Allergen alpha-type gliadin [Triticum aestivum]
PQPQPQYSQPQQPISSQQQQQQQQQQQQEQQILQQILQQQLIPCMDVVLQQHNIAGHR
SQVLQQSTYQLLQELCCQHLWQIPEQSQCQAIHNVVHAIILHQQKQQQQPSSQFSFQQ
PLQQYPLGQGSFRPSQQNPQAQGSVQPQQLPQFEIRNLALQTLPAMCNVYIPPYCTIAPF
GIFGTN

>accession|AAA34285.1|Putative pre-gamma-gliadin B-I [Triticum aestivum]
MKTFLVFAIAVAVATSIAIQAQMETSCISGLERPWQQQPLPPQQSFSQQPPFSQQQQQLPQ
QPSFSQQQPPFSQQQPILSQQPPFSQQQQPVLPPQQSFSQQQQQLVLPQQQQQQQLVQQQI
PIVQPSVLQQLNPKVFLQQQCSPVAMPQRLARSQMWWQSSCHVMQQQCCQQLQIPEQS
RYEAIRAIIYSIILQEQQQGFVQPQQQQPQQSGQGSVSQQSSQQQLGQCSFQQPQQQLG
QQPQQQQQQVLOGTFLQPHQIAHLEAVTSIALRTLPTMCSVNVPLYSATTSVPFVGVTG
VGAY

>accession|AAA34286.1|Putative gamma-gliadin [Triticum aestivum]
TITRTFPIPTISSNNHHFRSNSNHFFHSNNNQFYRNNSPGHNNPLNNNNSPNNNSPSN
HHNNSPNNNFQYHHTPSNHKNLPHTNNIQQQQPPFSQQQQPPFSQQQQPVLPQQSPFSQQ
QQVLVLPQQQQQQLVQQQIPVQPSVLQQLNPKVFLQQQCSVPAMPQRLARSQMWQSS
CHVMQQQCCQQLQQIPEQSRYEAIRAIIYSIILQEQQQGFVQPPQQQPQQSGQVVSQSQ
QSQQQLGQCSFQQPQQQLGQQPQQQQQQQVLOGTFLQPHQIAHLEAVTSIALRTLPTMCS
VNVPLYSATTSVPPFGVGTGVGAY

>accession|AAA34287.1|Putative gamma gliadin B-III [Triticum aestivum]
PQQPFPLQPQQSFLWQSQPFLLQPPQPPSPQPPQVVQIISPATPTTIPSAGKPTSAPFPQ
QQQHQQLAQQQIPVVQPSILQQLNPKVFLQQQCSVPAMPQRLARSQMLQQSSCHVMQQ
QCCQQLPQIPQQSRYQAIRAIIYSIILQEQQQVQGSIQSQQQQPQQLGQCVSQPQQSQSQ
QLGQQPQQQQLAQGTFLQPHQIAQLEVMTSIALRILPTMCSVNVPLYRTTTTVPPFGVGTG
VGAY

>accession|AAA34288.1|Allergen gamma-gliadin [Triticum aestivum]
MKTLLILITILAMAITIGTANMQVDPSSQVQWPQQQVVPQPHQPFSSQQPQQTFFPQPQQTFF
HQPQQQFPQPQQPQQQFLQPPQFPQQPQQPYPQQPQQPFPQTQQPQQLFQSSQQPQQQF
SQPQQQFPQPQQPQQSFPQQQPPFIQPSLQQQVNPCKNFLQCKPVSLVSSLWSMIWPQ
SDCQVMRQQCCQQLAQIPQQLQCAAIHTIHSIIMQQEQEQEQQGMHILLPLYQQQQVGG
GTLVQGGGIIQ

>accession|AAA34289.1|Allergen gamma-gliadin [Triticum aestivum]
MKTLLILITILAMAITIGTANIQVDPSSQVQWLQQQLVLPQLQQPLSQPPQQTFFPQPQQTFF
HQPQQQVVPQPQQPQQPFLQPPQFPQQPQQPFPQTQQPQQPFPQQPQQPFPQTQQPQQPF
PQQPQQPFPQTQQPQQPFPQLQQPQQPFPQPQQQLPQPQQPQQSFPQQQRPFIQPSLQQQ
LNPKNILQQSKPASLVSSLWSI IWPQSDCQVMRQQCCQQLAQIPQQLQCAAIHSVVHS
IIMQQQQQQQQQGGIDIFLPLSQHEQVGGQSLVQGGGIIQPQQPAQLEAIRSLVLQTLPS
MCNVYVPECSIMRAPFASIVAGIGGQ

>accession|AAA34290.1|Allergen gliadin [Triticum urartu]
MKTFLILALLAIVATTATTAVRVPVPQPQPQNPSQPQPQRQVPLVQQQQFPGQQQQFPPQ
QPYPQPQPFPSQQPYLQLQFPQPQPFPQLPYPQPPFPSPQQPYPQPQPYPQPQQPIS
QQQAQQQQQQQQQQQQQQQQQQIILPQILQQQLIPCRDVVLQQHNIAHARSQVLQQSTYQP
LQQQLCCQQLWQIPEQSRCAIHNVVHAILHQQQQQQQPSSQVSLQQPQQQYPSGGQFFQ
PSQQNPQAQGSVQPQQLPQFEEIRNLALQTLPRMCNVYIPPYCS'TTTAPFGIFGTN

>accession|AAB02788.1|Allergen HMW glutenin subunit Ax2* [Triticum
aestivum]
MTKRLVLF AAVVVALVALTAAEGEASGQLQCERELQEHSLKACRQVVDQQLRDVSPQCQ
VGGGPVARQYEQQVVVPPKGGSFYPGETTTPPQQQLQQSILWGI PALLRRYYLSVTSPQQVS
YYPGQASSQRPGQGQQEYYLTSPQQSGWQQPGQGQSGYYPTSPQQSGQKQPGYYPTSPW
QPEQLQQPTQGGQRQQPGQGQLRQGQQGQQSGQGQPRYYPTSSQQPGQLQQLAQGGQQGQ
QPERGQQGQQSGQGQQLGQGQQGQQPGQKQQSGQGQQGYYPI SPQQLGQGQQSGQGQLGY
YPTSPQQSGQGQSGYYPTSAQQPGQLQQSTQEQQLGQEQDQQSGQGRQGQQSGQRQQDQ
QSGQGQQPGQRQPGYYSTSPQQLGQGQPRYYPTSPQQPGQEQQPRQLQQPEQGQQGQQPE
QGQQGQQQRQGEQGQQPGQGQQGQQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQQSGQLQ
QPAQGQQPGQEQQGQQPGQGQQPGQGQPGYYPTSPQQSGQEQQLEQWQQSGQGQPGHYPT
SPLQPGQGQPGYYPTSPQQIGQGQQPGQLQQPTQGQQGQQPGQGQQGQQPGEGQQGQQPG
QGQQPGQGQPGYYPTSLQQSGQGQQPGWQQPGQGQPGYYPTSSLQPEQGQQGYYPTSSQ
QPGQGQPGQWQQSGQGQQGYYPTSPQQSGQGQQPGQWLQPGQWLQSGYYLTSPQQLGQG
QQPRQWLQPRQGQQGYYPTSPQQSGQGQQLGQGQQGYYPTSPQQSGQGQQGYDSPYHVSA
EHQAASLKVAKAQQQLAAQLPAMCRLEGGDALLASQ

>accession|AAA39768.1|Allergen major urinary protein II [Mus musculus domesticus]

MKMLLLLCLGLTLVCHAEAEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRLFL
EQIHVLEKSLVLKFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLM
AHLNEKDGETFQLMGLYGREPDLSSDIKERFAKLCEEHGILRENIIDLSNANRCLQARE

>accession|AAA41198.1|Putative alpha-2u globulin precursor(), partial [Rattus norvegicus]

LLLLCLGLTLVCGHAEAEASSTSGNLDVAKLNGDWFSIVVASNKREKIEENGSMRVFMQHI
DVLNSLGFKFRIKENGECRELYLVAYKTPEDGEYFVEYDGGNTFTILKTDYDRYVMFHL
INFKNGETFQLMVLYGRTKDLSSDIKEKFAKLCEAHGITRDNIIDLTKTDRCLQARG

>accession|AAA48944.1|Allergen lysozyme protein [Gallus gallus]
MNAWVAWRNSCKGTDVQAWIRGCR

>accession|BAA01239.1|Allergen mite allergen Der f II precursor, partial [Dermatophagoides farinae]

SLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCI IHRGKPF TLEALFDANQNTKTAK
IEIKASLDGLEIDVPGIDTNACHFVKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKLI
GDNGVLACAIATHGKIRD

>accession|BAA01240.1|Allergen mite allergen Der f II precursor [Dermatophagoides farinae]

MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCI IHRGKPF TLEALFDA
NQNTKTAKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDIKYTWNVPKIAPKSEN
VVVTVKLI GDNGVLACAIATHGKIRD

>accession|BAA01241.1|Allergen mite allergen Der f II precursor [Dermatophagoides farinae]

SLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCI IHRGKPF TLEALFDANQNTKTAK
IEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPKSENVVVTVKLI
GDNGVLACAIATHAKIRD

>accession|BAA01998.1|Putative allergenic protein [Oryza sativa (japonica cultivar-group)]

MASNKVVF SALLLIIVSVLAATTRMADHKKDQVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVRGTRSPGAVDEQLAQDCCRELAAVDDSWCRCSALNHMVGGIYRELGATDVGHMMAEV
FPGCRRGDLERAAASLPAFCNVDIPNGTGGVVCYWLGPRTPTRGH

>accession|BAA01996.1|Putative allergenic protein [Oryza sativa (japonica cultivar-group)]

MASNKVVF SVLLLAVVSVLAATATMAEYHHQDQVVYTRARCQPGMGYPMYSLPRCRAVVK
RQCRGSAAAQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHMSEVFRG
CRRGDLERAAASLPAFCNVDIPNGGGGVVCYWLARSGY

>accession|BAA00154.1|Putative glycinin A2B1a subunit [Glycine max]

MAKLVLSLCLFLFSGCFALREQAQQNECQIQKLNALKPDNRIESEGGFIETWNPNNKPFQ
CAGVALSRCTLRNLRNRRPSYTNQPQEIYIQQNGIFGMIFPGCPSTYQEPQESQQRGRS
QRPQDRHQKQVHRFREGDLIAVPTGVAVWMMYNNEDTPVAVSIIIDTNSLENQLDQMPRRFY
LAGNQEQEFLKYQQQQGGSQSQKQKQEEENEENEGSNILSGFAPEFLKEAFGVNMQIVRNL
QGENEEEDSGAIVTVKGGRLVTAPAMRKPQQEEDDDDEEQPQCVETDKGCQRQSKRSRN
GIDETICTMRLRQNIQNSSPDIYNPQAGSITTATSLDFPALWLLKLSAQYGSRLRKNAMF
VPHYTLNANSIIYALNLRALVQVNCNGERVFDEGELQEGGVLI VQNFVAVAKSQSDNFE

YVSFKTNRPSIGNLAGANSLLNALPEEVIQHTFNLKSQARQVKNNNPFSFLVPPQESQ
RRAVA

>accession|P30575.1|Allergen Enolase 1 (2-phosphoglycerate dehydratase)
(2-phospho-D-glycerate hydro-lyase) [Candida albicans]
MSYATKIHARYVYDSRGNPTVEVDFTTDKGLFRSIVPSGASTGVHEALELRDGDKSKWLG
KGVLKAVANVNDIIAPALIKAKIDVVDQAKIDFLLSLDGTNPNSKLGANAILGVSLAAA
NAAAAAQGIPLYKHIANISNAKKGKFLVPVPFQNVNLNGGSHAGGALAFQEFMIAPTGVST
FSEALRIGSEVYHNLKSLTKKKYGQSAGNVGDEGGVAPDIKTPKEALDLIMDAIDKAGYK
KVGVIAMDVASSEFYKDGKYDLDFKNPESDPKSWLSGPQLADLYEQLISEYPIVSIEDPF
AEDDWDAAVWHFFERVGDKIQIVGDDLTVTNPTRIKTAIEKKAANALLLKVNQIGTLTESI
QAANDSYAAGWGMVSHRSGETEDTFIADLSVGLRSGQIKTGAPARSERLAKLNQILRIE
EELGSEAIYAGKDFQKASQL

>accession|AAB20452.1|Allergen Bet v I=major allergen [Betula pendula]
GVFNJETETTSVIPAARLFKAFILDGDNLFPKVAPQAIXXVEN

>accession|AAB20453.1|Allergen Car b I=major allergen [Carpinus betulus]
GVFNIEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAIXK

>accession|AAB22817.1|Putative peanut agglutinin precursor; prepNA
[Arachis hypogaea]
MKPFCVFLTFLLLAASSKKVDSAETVSFNFSNFSEGNPAINFQGDVTVLSNGNIQLTNL
NKVNSVGRVLYAMPVRIWSSATGNVASFLTSFSFEMKDIKDYDPADGIIFFIAPEDTQIP
AGSIGGGTLGVSDTKGAGHFVGVFDTYSNSEYNDPPTDHVGDVNSVDSVKTVPWNSVS
GAVVKVTVIYDSSTKTLVAVTNDNGDITTTIAQVVDLAKLPERVKFGFSASGSLGGRQI
HLIRSWSTSTLITTTTRRSIDNNEKKIMMASA

>accession|AAB23464.1|Putative Kunitz trypsin inhibitor; KTi [Glycine
max]
MKSTIFFLFLVCAFTTSYLPSAIADFVLDNEGPNLENGGTYIILSDITAFGGIRAAAPTGN
ERCPLTVVQSRNELDKGIGTIISSPYRIRFIAEGHPLSLKFDSEFAVIMLCVGIPTESV
EDLPEGPAVKIGENKDAMDGWFRLERVSDEFNFKLVFCPQQAEDDKCGDIGISIDHDD
GTRRLVVSKNKPLVVQFQKLDKESLAKKNHGLSRSE

>accession|AAB23482.1|Putative Kunitz trypsin inhibitor KTi1 [Glycine
max]
MKSTIFFALFLVCAFTTISYLPSATAQFVLDTDDDPLQNGGTYIIMLPVMRGKGGGIEVDST
GKEICPLTVVQSPNELDKGIGLVFTSPLHALFIAERYPLSIKFGSFAVITLCAGMPTEWA
IVEREGLQAVKLAARDTVDGWFNIERSREYNDYKLVFCPQQAEDNKCEDIGIQIDDDGI
RRLVLSKNKPLVVQFQKFRSSTA

>accession|AAB23483.1|Putative Kunitz trypsin inhibitor KTi2 [Glycine
max]
MKSTIFFALFLVCAFTTISYLPSATAQFVLDTDDDPLQNGGTYIIMLPVMRGKSGGIEGNST
GKEICPLTVVQSPNKHNGIGLVFKSPLHALFIAERYPLSIKFGSFAVIPLCGVMPTKWA
IVEREGLQAVTLAARDTVDGWFNIERSREYNDYKLVFCPQQAEDNKCEDIGIQIDNDG
IRRLVLSKNKPLVVVEFQKFRSSTA

>accession|AAB24432.1|Allergen Aln g I [Alnus glutinosa]
MGVFNIEAETPSVIPAARLFKAFILDGDKLLPKVAPEAVSSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDVNFYKYSFVIEGGAVGDALEKVCNEIKIVAAPDGGSSILKISNK
FHTKGDHEINAEQIKIEKEKAVGLLKAVESYLLAHSDAYN

>accession|P29600.1|Putative RecName: Full=Subtilisin Savinase; AltName: Full=Alkaline protease [Bacillus lentus]
AQSVPWGISRVQAPAAHNRGLTGSGVKVAVLDTGISTHPDLNIRGGASFVPGEPSTQDGN
GHGTHVAGTIAALNNSIGVLGVAPSAELYAVKVLGASGSGSVSSIAQGLEWAGNNGMHVA
NLSLGSPPSATLEQAVNSATSRGVLVVAASGNSGAGSISYPARYANAMAVGATDQNNNR
ASFSQYGAGLDIVAPGVNVQSTYPGSTYASLNGTSMATPHVAGAAALVKQKNPSWSNVQI
RNHLKNTATSLGSTNLYGSGLVNAEAATR

>accession|A60372|Putative pollen allergen Poa-pI - Kentucky bluegrass (fragment) [Poa pratensis]
IAKVPPGPXITATYGDKWL

>accession|CAA51204.1|Allergen gamma 3 hordein, partial [Hordeum vulgare]
TTMXXXPSGLELERPQQLFQWQPLPQQPPFLQOQEPQYPQQQPLPQQQPPFPQQQLPH
QHQPQQLPQQQFPQQMPLPQQQFPQQMPLPQQQFPQPKPFGQYQQPLTQQPYPQQ
QPLAQQQPSIEEQHQLNLCKEFLQOCTLDEKVPLLQSVISFLRPHISQQNSCQLKRQQC
CQQLANINEQSRCPAIQTIVHAIVMQQQVQQQVGHGFVQSQLQQLGQGMPIQLQQQPGQA
FVLPQQQAQFKVVGLSVIQTLPMLCNVHVPPYCSPPFGSMATGSGGQ

>accession|CAA47341.1|Allergen phospholipase a1 [Dolichovespula maculata]
RLIMFVGDPSSNELDRFSVCPFSNDTVKMIFLTRENKRKHDFYTLDTMNRHNEFKKSIK
RPVVFITHGFTSSATEKNFVAMSEALMHTGDFLIIMVDWRMAACTDEYPGLKYMFKAAV
GNTRLVGNFIAMIAKKLVEQYKVPMTNIRLVGHSLGAHISGFAGKRVQELKLGKFSEIIG
LDPAGPSFKKNDCSERICETDAHYVQILHTSSNLGTERTLGTVDYINNGSNQPGCRYII
GETCSHTRAVKYFTECIRRECCLIGVPQSKNPQPVSKCTRNECVGLNAKKYPKRGSFY
VPVEAEAPYCNNGKII

>accession|AAA32702.1|Putative serine protease [Aspergillus niger]
MKGILGLSLLPLLTAASPVFVDSIHNEAAPILSATNAKEVPDSYIVVFKKHVTSELASAH
HSWVQDIHDSQSERTELKRSFLGGLGDEVYLGKNTFFDIAGSLIGYSGHFHEDVIEQVRR
HPVDVYIERDSEVHTMEGATEKNAPWGLARISHRDSLTFGNFNKYLYASEGEGVDAYTI
DTGINVDHVDVEGRATWGKTIPTNDELDGNGHGTHCSGTMAGKKGVAKKANLYAVKVL
RSSGSGTMSDVVSGVEYAVQAHIKKAKDAKNGKVKGFKGSVANMSLGGGKSKTLEDAVNA
GVEAGLHFVAAGNDNADACNYSAAA EKAITVGASTLADERAYFSNYGECTDIFAPGLN
ILSTWIGSNYATNIISGTSMASPHIAGLLAYFVSLQPSSDSAFAVEELTPAKLKKDIIAI
ATEGALTDIPSNTPNVSHAAVGIYKRNELTQKFSSLPGTVVVPRTTPTSLAAVATRSPLP
RTASRTVLRVSFTRPKSCSPRSLVPSTARSRMPSSHRSELVLSRRRSEDLVFF

>accession|CAA29664.1|Allergen alpha-lactalbumin [Bos taurus]
MMSFVSLLLVGLFHATQAEQLTKCEVFRELKDLKGYGGVSLPEWVCTAFHTSGYDTQAI
VQNNDSSTEYGLFQINNKIWCKDDQNPSSNICNISCDKFLDDDLTDDIMCVKKILDKVGI
NYWLAHKALCSEKLDQWLCEKL

>accession|CAA26953.1|Allergen major urinary protein [Mus musculus]
MKMLLLLCLGLTLVCVHAEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRLFL
EQIHVLENSLVLFHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLM
AHLINKEKDGETFQLMGLYGREPDLMSDIKERFAQLCEEHGILRENIIDLSNANRCLQARE

>accession|AAB25850.1|Allergen isoallergen {N-terminal} [Betula sp.]
GVFNYETETTSVIPAARLFKAFILDGDNLFKVPQAITSVENIYERYGXG

>accession|AAB25851.1|Allergen isoallergen {N-terminal} [Betula sp.]
SVFNYETETTSVIPAAFLFKAFILDGDKLFPKVPQXQSIVXNXRYRVYXPK

>accession|AAB26195.1|Putative major allergen ABA-1=TBA-1 allergen homolog {N-terminal} [Ascaris suum]
HHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYYDELEGDADKEATEXL
KGXXXEIL

>accession|CAA49760.1|Putative major allergen [Myrmecia pilosula]
MKLSCLLLTLTIIFVLTIVHAPNVEAKDLADPESEAVGFADAFGEADAVGEADPNAGLGS
VFGRLARILGRVIPKVAKKLGPVAKVLPKVMKEAIPMAVEMAKSQEEQQPQ

>accession|CAA51718.1|Putative profilin 1 [Zea mays]
MSWQTYVDEHLMCEIEGHHLTSAIVGHGATWAQSTAFPEFKPEEMAAIMKDFDEPGHL
APTGLILGGTKYMVIQGEPGA VIRGKKGSGGITVKKTGQSLIIGIYDEPMTPGQCNLVVE
RLGDYLLEQGM

>accession|CAA51719.1|Putative profilin 2 [Zea mays]
MSDRAKMSWQAYVDEHLMCEIEGHHLAIAIVGHGAAWAQSTAFPEFKTEDMANIMKDF
DEPGHLAPTGLFLGPTKYMVIQGEPGA VIRGKKGSGGITVKKTGQALVVGIYDEPMTPGQ
CNMVVERLGDYLLEQGM

>accession|CAA51720.1|Putative profilin 3 [Zea mays]
MSWQTYVDEHLMCEIEGHHLSSAIVGHGAVWAQSTAFPPQFKPEEMTNI IKDFDEPGFL
APIGLFLGPTKYMVIQGEPGA VIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLVEQGL

>accession|A45786|Allergen major pollen allergen Bet v I - European white birch (fragment) [Betula pendula]
GVFNYEAEETTSVIPAAWLKXFILDGDNLFPKVAPQAXTSVENIYERGGWG

>accession|B45786|Allergen major pollen allergen Bet v II - European white birch (fragment) [Betula pendula]
SVFNYEETETTSVIPAAMLFKAFILDGDKLFPKVAPQXQSIVXNXRVYXPK

>accession|E37396|Putative pollen allergen Agr a I - bent grass (fragment) [Agrostis alba]
YTTEGGTKAEAEDVIPEGWKADTSYE

>accession|G37396|Putative pollen allergen Ant o I - sweet vernal grass (fragment) [Anthoxanthum odoratum]
YTTEGGKKVEAEDVIPEGWKADTSYE

>accession|C37396|Putative pollen allergen Fes e I type A - reed fescue (fragment) [Schedonorus arundinaceus]
YTTEGGTKSEAEDVIPE

>accession|D37396|Putative pollen allergen Fes e I type B - reed fescue (fragment) [Schedonorus arundinaceus]
YTTEGGTKSEVEDVIPEGWK

>accession|F37396|Putative pollen allergen Poa p I - Kentucky bluegrass (fragment) [Poa pratensis]
YTTEGGTKAEAEDVIPEGWKVDTSYE

>accession|AAA16792.1|Putative superoxide dismutase (manganese) [Hevea brasiliensis]

MALRSLVTRKNLPSAFKAATGLGQLRGLQTFSLPDLPHYDYGALEPAISGEIMQLHHQKHH
QTYITNYNKALEQLNDAIEKGDSAAVVKLQSAIKFNGGGHVNSIFWKNLAPVREGGGEL
PHGSLGWAIADDFGSLEKLIQLMNAEGAALQSGWVWLALDKELKLVVETTANQDPLVT
KGPTLVPLLGLIDVWEHAYYLQYKNVRPDYLNKIWKVMNWKYASEVYAKECPSS

>accession|AAA28296.1|Allergen major house dust allergen
[Dermatophagoides pteronyssinus]
MSAEAFEHLKTQFDLNAETNACSLINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAA
TESAYLAHRNQSLDLAEQELVDCASQHGCHGDTIPR

>accession|CAA44345.1|Allergen fel d I chain 2 precursor [Felis catus]
MRGALLVLALLVTQALGVKMAETCPIFYDVFFAVANGNELLLDLSLTKVNATEPERTAMK
KIQCVCYENGLISRVL DGLVMIAINEYCMGEAVQNTVEDLKLNTLGR

>accession|CAA52753.1|Allergen Phlp5 [Phleum pratense]
MAVHQYTVALFLAVALVAGPAASYAADLGYGPATPAAPAAGYTPATPAAPAEAAPAGKAT
TEEQKLIKINAGFKAALAAAAGVQPADKYRTFVATFGAASNKAFAEGLSGEPKGAEESS
SKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLSEALRI IAGTLEVHAVKPAEEVK
VIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEAAFNDAIKASTGGAYESYKFI PA
LEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPAAAATATATAAVGAAT
GAATAATGGYKV

>accession|CAA52194.1|Allergen preproalbumin [Equus caballus]
MKWVTFVSLFLFSSAYSRRVLRDTHKSEIAHRFNDLGEKHFGLVLFVAFSQQYLQCCPF
EDHVKL VNEVTEFAKKCAADESAENCDKSLHTLFGDKLCTVATLRATY GELADCCEKQEP
ERNECFLTHKDDHPNLPKLPKPEPDAQAAFQEDDPDKFLGKYLVEVARRHPYFYGPELLFH
AEEYKADFTTECCPADDKLACLIPKLDALKERILLSSAKERLKCSSFQNFGERAVKAWSVA
RLSQKFPKADFAEVSKIIVTDLTKVHKECCHGDLLECADDRADLAKYICEHQDSISGKLLA
CCDKPLLQKSHCIAEVKEDDLPSDLPALAADFAEDKEICKHYKDAKDVFLGTFLYEYSRR
HPDYSVSLLLRIAKTYEATLEKCCAADPPACYRTVFDQFTPLVEEPKSLVKKNCDLFEE
VGEYDFQNALIVRYTKKAPQVSTPTLVEIGRTLKGKVGSRCKLPESERLPCSENHLALAL
NRLCVLHEKTPVSEKITKCTDSLAERRPCFSALELDEGYVPKEFKAETFTFHADICTLP
EDEKQIKKQSALAEVLVHKPKATKEQLKTVLGNFSAFVAKCCGREDKEACFAEEGPKLVA
SSQLALA

>accession|CAA47366.1|Allergen Car b I, partial [Carpinus betulus]
GVFNIEAETPSVIPAARLFKSYVLDGDKLIPKVAPQVISSVENVGGNGGPGTIKNITFAE
GIPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAAEKMGAKEMAELLLRAVESYLLAHTAEYN

>accession|CAA47357.1|Allergen Car b I [Carpinus betulus]
GVFNIEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFAE
GSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAAEEMKGAEMAELLLRAVESYLLAHTAEYN

>accession|CAA47367.1|Allergen Car b I, partial [Carpinus betulus]
GVFNIEAETTSVIPAARLFKAFILDGNKLI PKVSPQAVSSVENVEGNGGPGTIKKITFSE
GSPVKYVKERVEEIDHTNFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSKF
HAKGYHEVNAAEEMKGAEMAELLLRAVESYLLAHTAEYN

>accession|AAB27594.1|Putative DF5=allergen {N-terminal}
[Dermatophagoides farinae]
AVGGQDADLAEAPFQISLLK

>accession|AAB27445.1|Putative Pha a I=34 kda pollen allergen {N-terminal} [Phalaris aquatica]
IAKVPPGGXITA EYGDKWLD

>accession|CAA81610.1|Putative allergen Hol-1I [Holcus lanatus]
MASSRSVLLLLVAALFAVFLGSAHGIKVPVPPGNITATYGDWLDKSTWYGKPTGAGPK
DNGGACGYKDVDPKPPFSGMTGCGNTPIFKDGRGCGSCFEIKCTKPESCSGEPVTVHITDD
NEEPIAPYHFDLSGHAFGSMAKKGEEQKLR SAGELELKFRRVKCKYPDGTKPTFHVEKGS
NPNYLALLVKYIDGDGDVVAVDIKEKGKDKWIELKESWGAVWRVDTDPDKLTGPFTVRYTT
EGGTKGEAEDVIPEGWKADTAYEAK

>accession|CAA53529.1|Putative PHL PII, pollen allergen [Phleum pratense]
MSMASSSSSSLLAMAVLAALFAGAWCVPKVFTTVEKGSNEKHLAVLVKYE GDTMAEVELR
EHGSDEWVAMTKGEGGVWTFDSEEP LQGPFNFRFLTEKGMKNVFDDVVPEKYTIGATYAP
EE

>accession|P00304.2|Allergen Pollen allergen Amb a 3 (Amb a III)
(Allergen Ra3) [Ambrosia artemisiifolia (elator)]
GKVYL VGGPELGGWKLQSDPRAYALWSARQQFKTTDVLWFNFTTGEDSVAE V WREEAYHA
CDIKDPIRLEPGGPD RFTLLTPGSHFICTKDKQK FVACV PGR

>accession|P24296.2|Allergen RecName: Full=Non-specific lipid-transfer
protein; Short=LTP; AltName: Full=Phospholipid transfer protein;
Short=PLTP; AltName: Full=ns-LTP1; Flags: Precursor [Triticum aestivum]
AQVMLMAVALVLM LAAVPRAVAIDCGHVDSLVRPCLSYVQGGPGPSGQCCDGVKNLHNQ
ARSQSDRQSACNCLKGIARGIHNLNEDNARSIPPCKGVNLPYTISLNIDCSR V

>accession|S32101|Allergen PHL P5A protein - common timothy (fragment)
[Phleum pratense]
EAPAGKATTEEQK LIEKINAGFKAALARRLQPADKYRTFVATFGPASNKAF AEGLSGEPK
GAESSSKAALTSKLDAA YK LAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKP
AAEEVKVIPAAELQVIEKVDAAFKVAATAANAAPANDKFTVF EAAFNDEIKASTGGAYES
YKFIPALEAAVKQAY AATVATAPEVKYTVFETALKKAITAMSEAQKAAKPPPLPPPQPP
PLAATGAATAATGGYKV

>accession|CAA49555.1|Allergen CMa, component of tetrameric alpha-amylase
inhibitor [Hordeum vulgare subsp. vulgare]
MASKSSITPLLLAAVLASVFAAATATGQYCYAGMGLPSNPLEGCREYVAQQT CGVVTIAGS
PVSSEPGDTPKDRCCQELDEAPQHCRCEAVRYFIGRRSHPDWSVLKDLPGCPKEPQRDFA
KVLVTPGQC NVLTVHNPYCLGLDI

>accession|CAA54421.1|Allergen Bet v 1b [Betula pendula]
MGVFNYETETTSVIP AARLFKAFILEGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAEHMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|AAB28566.1|Allergen major allergen Cyn d I=34 kda polypeptide
{N-terminal} [Cynodon dactylon=Bermuda grass, pollen, Peptide Partial, 25
aa] [Cynodon dactylon]
AMGDDPGPKITATY GSKWLDKATF

>accession|AAB28567.1|Allergen major allergen Cyn d I=29 kda polypeptide
{N-terminal} [Cynodon dactylon=Bermuda grass, pollen, Peptide Partial, 38
aa] [Cynodon dactylon]

GAAPDDHGGAXGYKDVDKPPFDGMTAXGNEPIFKDDL

>accession|CAA54481.1|Allergen Bet v 1 c [Betula pendula]
MGVFNYESETTSVIPAAARLFKAFILEGDTLIPKVAPQAISVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDQEMKAEHMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|CAA54482.1|Allergen Bet v 1 d [Betula pendula]
MGVFNYEIEETTSVIPAAARLFKAFILDGDNLVKVPQAISVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54483.1|Allergen Bet v 1 e [Betula pendula]
MGVFNYETEATSVIPAARLFKAFILDGDNLFKVPQAISVENIEGNGGPGTIKKISFP
EGIPFKYVKGRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNK
YHTKGDHEVKAQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54484.1|Allergen Bet v 1 f [Betula pendula]
MGVFNYEIEATSVIPAARLFKAFILDGDNLFKVPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNK
YHTKGDHEVKAQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54487.1|Allergen Bet v 1 j [Betula pendula]
MGVFNYETEATSVIPAARLFKAFILDGDNLFKVPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPNGGSILKINNK
YHTKGDHEVKAQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54488.1|Allergen Bet v 1 k [Betula pendula]
MGVFNYESETTSVIPAAARLFKAFILEGDTLIPKVAPQAISVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAHMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|CAA54489.1|Allergen Bet v 1 l [Betula pendula]
MGVFNYETEATSVIPAARMFKAFILDGDKLVKVPQAISVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA54686.1|Putative profilin [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLSAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMIQGEPRVIRGKKGAGGITIKKTGQALVVGIYDEPMTPGQCNMVE
RLGDYLVEQGM

>accession|AAA33405.1|Allergen isoform 9 [Lolium perenne]
MAVQKHTVALFLAVALVAGPAASYAADAGYAPATPATPAAPATAATPATPATPATPAAVP
SGKATTEEQKLIKINAGFKAAVAAA VPPADKYKTFVETFGTATNKAFVEGLASGYAD
QSKNQLTSKLDAAKLAYEAAQGATPEAKYDAYVATL TEALRVIAGTLEVHAVKPAEEV
KVGAI PAEVQLIDKVDAA YRTAATAANAAPANDKFTVFENTFNNAIKVSLGAAYDSYKF
IPTLVA AVKQAYAAKQATAPEVKYTVSETALKKAVTAMSEAEKEATPAAAATATPTPAAA
TATATPAAAYATATPAAATATATPAAATATPAAAGGYKV

>accession|AAB29137.1|Allergen beta-casein A3 [Bos taurus]
MKVLILACLVALALARELEELNVPGEIVESLSSEESITRINKKIEKFQSEEQQQTEDEL
QDKIHFPAQTSLSVYFPFGPIPNSLPQNIPLTQTPVVVPPFLQPEVMGVSKVKEAMAPK
QKEMPFKYPVEPFTESQSLTLTDVENLHLPLPLLQSWMHQPHQPLPPTVMFPPQSVLSL

SQSKVLPVPQKAVPYPQRDMP IQAFLLYQEPVLGPVRGPFPIIV

>accession|P34071.1|Putative RecName: Full=Enterotoxin type C-2; AltName: Full=SEC2; Flags: Precursor [Staphylococcus aureus]
MNKSRFISCVILIFALILVLF TPNVLAESQPDPTDELHKSSEFTGTMGNMKYLYDDHYV
SATKVMVDKFLAHDLIYNI SDKLLKNYDKVKTELLNEDLAKKYKDEVVDVYGSNYVNC
YFSSKDNVGVKVTGGKTCMYGGITKHEGNHFDNGNLQNVLIRVYENKRNTISFEVQTDKKS
VTAQELDIKARNFLINKKNLYEFNSSPYETGYIKFIENNGNTFWYDMMPAPGDKFDQSKY
LMMYNDNKTVDSKSVKIEVHLTTKNG

>accession|P33556.1|Putative Nonspecific lipid-transfer protein P2 (LTP P2) [Vitis sp.]
AITCGQVSSALSSCLGYLKNNGGAVPPGSSCGIKNLNSA

>accession|P80274.1|Putative Nonspecific lipid-transfer protein P4 (LTP P4) [Vitis sp.]
TVTCGQVASALSPCIDY LQKDGAVPAGSCCXKXLSA

>accession|CAA55068.1|Putative minor allergen Cla h 7 [Davidiella tassiana]
MAPKIAIIFYSTWGHVQTLAEAEAKGIREAGGSVDLYRVPETLTQEVLTMKMHAPPKDDSI
PEITDPFILEQYDRFPHGHPTRYGNFPAQWRFTWDRTGGQWQTGAFWVKYAGLFISTGTQ
GGGQESTALAMSTLSHHGIIYVPLGYKTTFHLLGDNSEVRGA AVWGAGTFSGGDGSRQP
SQKELELTAQ GKAFYEAVAKVNFQ

>accession|CAA55070.1|Putative enolase; phosphopyruvate hydratase [Davidiella tassiana]
MPISKIHSRYVYDSRGNPTVEVDIVTETGLHRAIVPSVASTGSHEACELRDGDKSKWAGK
GVTKAVANVNEIIAPALIKENLDVKDQAAVDAFLNKL DGT TNKTKIGANAILGVSMVAVK
AAA AEKRVPLYAHISDLSGTKKPFVLPVPMNVVNGGSHAGGRLAFQEFMIVPSGAPSFT
EAMRQGAEVYQKLKSLTKKRYGQSAGNVGDEGGVAPDIQTAEALDLITDAIEEAGYTGQ
IKIAMDVASSEFYKADEKKYDLDFKNPDSKSKWITYEQLADQYNELAAKYPIVSIEDPF
AEDDWEAWSYFYKTS GSD FQIVGDDLTVTNPEFIKKA IETKACNALLLKV NQIGTITEAI
NAAKDSFAAGWGMVSHRSGETEDVTIADIVVGLRAGQIKTGAPARSERLAKLNQILRIE
EELGDKRLYAGDNFRTAINL

>accession|CAA55390.1|Allergen Phl p I allergen [Phleum pratense]
MASSSSVLLVVVLFVAVFLGSA YGIPKVPPGNITATYGDKWLD AKSTWYGKPTGAGPKDN
GGACGYKDVDKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNE
EPIAPYHFDLSGHAFGAMAKKGDEQKLR SAGELELQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKYVNGDGDVVAVDIKEKGKDWIELKESWGAIWRIDTPDKLTGPFTVRYTTEG
GTKTEAEDVIPEGWKADTSYESK

>accession|S38584|Allergen allergen Phl p Vb - common timothy [Phleum pratense]
MAVPRRGPRGGPGRSYTADAGYAPATPAAAGAAAGKATTEEQKLI EDINVGFKAAVAARQ
RPAADKFKTFEASPRHPRPLRQGAGLVPKLDAAYSVA YKAAVGATPEAKFDSFVASLTE
ALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAF KVAATAAATAPADDKFTVF
EAAFNKAIKESTGGAYD TYKCIP SLEAAVKQAYAATVAAAAEVKYAVFEALTKAITAMS
EVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>accession|CAA55854.1|Putative allergen [Betula pendula]
MPCSTEAMEKAGHGHASTPRKRSLNSSFRLRSESLN TLRRLRIFDLFDKNSDGIITVDE
LSRALNLLGLETDLSELESTVKSFTREGNIGLQFEDFISLHQSLNDSYFAYGGEDEDDNE

EDMRKSILSQEEADSFGGFKVFEDEGDGYISARELQMVLGKLGFESEIDRVEKMIVSV
DSNRDGRVDFFEFKDMMRSLVRSS

>accession|BAA05542.1|Putative Cry j IA precursor [Cryptomeria japonica]
MDSPCLVALLVLSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFSGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWIIIFSGNMNIKLMKPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNVIIHGLHLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSDGLVDVTLSTGVTISNNLFFNHKKVMLLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNNDPWTIIYAIGGSSNPITLSEGNSTAPNESYKKQV
TIRIGCKTSSSSCNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLT
KNAGVLTCSLSKRC

>accession|BAA05543.1|Putative Cry j IB precursor [Cryptomeria japonica]
MDSPCLVALLVFSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFSGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWIIIFSGNMNIKLMKPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNVIIHGLYLYGCSTSVLGNVLINESFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSDGLVDVTLTSTGVTISNNLFFNHKKVMSLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNNDPWTIIYAIGGSSNPITLSEGNSTAPNESYKKQV
TIRIGCKTSSSSCNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPHLT
QNAGVLTCSLSKRC

>accession|BAA06172.1|Allergen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAEDQSAQIMLDSVVEKYLRSNRSLRKEVHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGI IAAYQNPASWKNRILWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTDGDIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIGISLGRENSRAEVSVYHVN
GAKFIDTQNGRLIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGIASCLNDNANGYF5
GHVIPACKNLSPSAKRKE5SHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWIC5SCHGKIYHP

>accession|CAA56343.1|Putative Kunitz trypsin inhibitor [Glycine max]
MKSTTSLALFLLCALTSSYQPSATADIVFDTEGNPIRNGGTYYYVLPVIRGKGGGIEFAKT
ETETCPLTVVQSPFEGLRGLPLIISSPFKILDITEGLILSLKFLHCTPLSLNSFSVDRY
SQGSARRTPCQTHWLQKHNR5CWFRIRASSES5NYKLVFCTS5NDDSSCGDIVAPIDREGN
RPLIVTHDQNHPLLVQFQKVEAYES5TA

>accession|AAA19973.1|Putative Der p 3 allergen [Dermatophagoides
pteronyssinus]
MIIYNILIVLLLAINLANPILPASP NATIVGGEKALAGECPYQISLQSSSHFCGGTILD
EYWILTAHCVAGQTASKLSIRYNSLKHSLGGEKISVAKIFAHEKYDSYQIDNDIALIKL
KSPMKLNQKNAKAVGLPAKGS5DVKVG5QVRV5SGW5YLEEGSYSLPSELRRVDIAVVS5RKE
CNELYSKANA5EVT5DNMIC5GGDV5ANG5K5DSC5QG5D5SG5PV5DV5KNN5QV5GIV5SWG5GC5ARK5
Y5PGVY5TRV5GN5FID5WIES5KRS5Q

>accession|AAA68279.1|Allergen allergen [Dolichovespula maculata]
SERPKRVFNIIYWNVPTFMCHQYGLYFDEVTNFNKHN5SKDD5FQ5DKISIF5YDP5G5EFP5ALL
PLKEGNYKIRNGGVPQEGNITIH5LQRFIEN5LDK5TYP5NRNF5NGIG5VID5FER5WRP5IFR5QNW5G
NMMI5HKK5FSID5LVRNE5HP5FDK5MIE5LE5ASK5R5FE5KYAR5LF5ME5ET5L5K5LAK5K5TR5K5QAD5W5GY5Y
GYP5CF5NM5SP5NN5L5VP5DC5DAT5AM5LE5ND5K5M5SW5LF5NN5QN5V5LL5PS5V5IR5HE5L5TP5D5QR5V5GL5V5Q5R
V5KE5AV5RIS5NN5L5KH5SP5K5V5LS5Y5W5W5Y5Q5DD5T5NT5FL5T5ET5DV5K5K5TF5QE5IA5ING5GD5G5II5W5G5SS5
DV5NS5L5SK5CK5RL5RE5Y5LL5TV5L5GP5IT5VN5VT5ET5VN

>accession|AAB60215.1|Allergen Der p 1 allergen preproenzyme [Dermatophagoides pteronyssinus]
MKIVLAIASLLALSAVYARPSSIKTFEYKKA FNKSYATFEDEEAARKNFLESVKYVQSN
GGAINHLSDDLDEFKNRFLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRTV
TPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGI EY
IQHNGVVQESYYRYVAREQSCRPNARQFRGISNYCQIYPPNVNKIREALAQTHSAIAVII
GIKDLDAFRHYDGRITIIQRDNGYQPNYHAVNIVGYSSNAQGVYDVIWRNSWDTNWGDNGYG
YFAANIDLMMIEEYPYVVIL

>accession|AAA20065.1|Allergen Amb p V allergen [Ambrosia psilostachya]
MNNEKNVSFEFIGSTDEVDEIKLLPCAWAGNVCGEKRAYCCSDPGRYCPWQVVCYESSEI
CSQKCGKMRMNVTKNTI

>accession|AAA20067.1|Allergen Amb p V allergen [Ambrosia psilostachya]
MNNEKNVSFEFIGSTDEVDEIKLLPCAWAGNVCGEKRAYCCSDPGRYCPWQVVCYESSKI
CSQKCGKMRMNVTKNTI

>accession|AAA20064.1|Allergen Amb p V allergen [Ambrosia psilostachya]
MNNEKNVSFEFIGSTNEVDEIKVMACYAAGSICGEKRGYSSDPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>accession|AAA20066.1|Allergen Amb p V allergen [Ambrosia psilostachya]
MNNEKNVSFEFIGSTNEVDEIKVMACYAAGSICGEKRGYSSDPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>accession|AAA20068.1|Allergen Amb p V allergen [Ambrosia psilostachya]
MNNEKNVSFEFIGSTNEVDEIKVMACYAAGSICGEKRGYCCTNPGRYCPWQVVCYESRKI
CAKNAAKMRMNVTKNTI

>accession|BAA07020.1|Putative Cry j I precursor [Cryptomeria japonica]
MDSPCLVALLVFSFVIGSCFSDNPIDSCWRGDSNWAQNRMKLADCAVGFSGSSTMGGKGGD
LYTVTNSDDDPVNPAPGTLRYGATRDRPLWII FSGNMNIKLKMPMYIAGYKTFDGRGAQV
YIGNGGPCVFIKRVSNV I HGLYLYGCSTSVLGNVLINE SFGVEPVHPQDGDALTLRTAT
NIWIDHNSFSNSDGLVDVTLTSTGVTISNNLFFNHKVMMLLGHDDAYSDDKSMKVTVAF
NQFGPNCGQRMPRARYGLVHVANNYDPWTIYAIGGSSNPTILSEGNSTAPNESYKKQV
TIRIGCKTSSSCSNWVWQSTQDVFYNGAYFVSSGKYEGGNIYTKKEAFNVENGNATPQLT
KNAGVLTCSLSKRC

>accession|CAA54696.1|Allergen 1 Sc-3 [Betula pendula]
MGVFNYEDEATSVIAPARLFKSFVLDADNLIPKVAPENVSSAENIEGNGGPGTIKKITFP
EGSHFKYMKHRVDEIDHANFKYCYSII EGGPLGDTLEKISYEIKIVAAPGGGSILKITSK
YHTKGDISLNEEEIKAGKEKGAGL FKA VENYLVAHPNAYN

>accession|CAA54695.1|Allergen 1 Sc2 [Betula pendula]
GVFDYEGETTSVIPARLFKAFILDGDNLIPKVAPQAVSCVENIEGNGGPGTIKKITFP
GSPFKYVKERVDEVDVNFKYSYSVIEGGAVGDTLEKICNEIKIVPAPGGGSILKISNKY
HTKGNHEMKAEQIKASKEKAEALFRAVESYLLAHS DAYN

>accession|CAA54694.1|Allergen 1-Sc1 [Betula pendula]
MGVFDYEGETTSVIPARLFKAFILDGDNLIPKVAPQTVSCVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHVNFKYSYSVIEGGAVGDTLEKICNEIKIVPAPGGGSILKISNK
YHTKGNHEMKAEQIKASKEKAEALFRAVESYLLAHS DAYN

>accession|A60373|Putative pollen allergen (clone 7.2) - Kentucky bluegrass (fragment) [Poa pratensis]
EFPGELQVIDKVDAAFKVAATAANAAPANDKFTVFEEAAFNDIAIKASTGGAYQSYKFI PAL
EAAVKQSYAATVATAPAVKYTVFETALKKAITAMAQAQKAAKPAAAVTGIATSAVGAATG
AATAAAGGYKA

>accession|AAB29344.1|Putative 36 kda allergen {peptide 143-111}
[Blattella germanica]
APPGCSNHFNLETVFGNFVK

>accession|AAB29345.1|Putative 36 kda allergen {peptide 143-115}
[Blattella germanica]
GLNICQIDCNKIQSLPXLVFTIGGD

>accession|P35775.1|Putative Venom allergen 2 precursor (Venom allergen II) (Allergen Sol i 2) (Sol i II) [Solenopsis invicta]
MKSFVLATCLLGFQAQIIYADNKELKIIRKDVAECLRTLKPKCGNQPDPLARVDVWHCAMA
KRGVYDNPDPVAVIKERSMKMCTKIITDPANVENCKKVASRCVDRETQGPKNRQKAVNII
GCALRAGVAETTTLARKK

>accession|P35781.1|Putative Venom allergen 5.01 (Antigen 5-1) (Ag5-1)
(Allergen Vesp c 5.01) (Vesp c V.01) [Vespa crabro]
NNYCKIKCRSGIHTLCKYGTSTKPNCGKNVVKASGLTKQENLEILKQHNEFRQKVARGLE
TRGNPGPQPPAKSMNTLVWNDELAQIAQVWANQCNYGHDNCRNSAKYQVGNIAEGSTTA
DNFGSVSNMVKMWEDEVKDYQYGSPKNKLNKVGHYTQMVWAKTKEIGCGSIKYIENGWHR
HYLVCNYGPAGNVGNEPIYERK

>accession|P35782.1|Putative Venom allergen 5.02 (Antigen 5-2) (Ag5-2)
(Allergen Vesp c 5.02) (Vesp c V.02) [Vespa crabro]
NNYCKIKCRSGIHTLCKYGTSTKPNCGKNVVKASGLTKQENLEILKQHNEFRQKVARGLE
TRGNPGPQPPAKSMNTLVWNDELAQIAQVWANQCNYGHDNCRNSAKYQVGNIAEGSTSA
DNFVNVSNMVKMWEDEVKDYQYGSPKNKLNKVGHYTQMVWAKTKEIGCGSEDIYEDGWHR
HYLVCNYGPAGNVGNEPIYERK

>accession|P35780.1|Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Pol f 5) (Pol f V) [Polistes fuscatus]
VDYCKIKCSSGIHTVCQYGESTKPSKNCADKVIKSVGPTEEEEKKLIVNEHNRFRQKVAQG
LETRGNPGPQPAASDMNMLVWNDELAHIAQVWASQCQILVHDKCRNTAKYQVGNIAIYAG
GSKLPDVVSLIKLWENEVDFNYNKGITKQNFQKVGHYTQMIWAKTKEIGCGSLKYMKN
MQHHYLICNYGPAGNYLGQLPYTKK

>accession|P35783.1|Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves f 5) (Ves f V) [Vespula flavopilosa]
NNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLVWNDELAQVAVANQCQYGHDTCDIAKYQVGNVALTGSTA
AKYDDPVKLVKMWEDEVKDYNPKKKFSGNNFLKTHYGTQMVWANTKEVCGSIFQEKW
HKHYLVCNYGPSGNFQNEELYQTK

>accession|P35784.1|Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves g 5) (Ves g V) [Vespula germanica]
NNYCKIKCLKGGVHTACKYESLKPNCANKKVAYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLVWSDelayIAQVWANQCQYGHDTCDVAKYPVGNVALTGSTA
AKYDNPVKLVKMWEDEVKDYNPKKKFSENNFLKIGHYGTQMVWANTKEVCGSIFQEKW
HKHYLVCNYGPSGNFQNEELYQTK

>accession|P35760.1|Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves m 5) (Ves m V) [*Vespula maculifrons*]
NNYCKIKCLKGGVHTACKYGLKPNCGNKKVVSYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLWVSEDELAYIAQVWANQCQYGHDTCRDVAKYQVGQNVALTGSTA
AVYNDPVKLVKMWEDEVKDYNPKKKFSENNFLKIGHYTMVWANTKEVGCSSIKYIQENW
HKHYLVCNYGPSGNFQNEELYQTK

>accession|P35785.1|Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves p 5) (Ves p V) [*Vespula pensylvanica*]
NNYCKIKCLKGGVHTACKYGLKPNCGNKIVVSYGLTKEEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLWVWDELAYVAQVWANQCQYGHDTCRDVAKYPVGQNVALTGSTA
DKYNDPVKLVKMWEDEVKDYNPKKKFSENNFNKIGHYTMVWANTKEIGCGSSIKYIQENW
HKHYLVCNYGPSGNFGNEELYQTK

>accession|P35786.1|Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves s 5) (Ves s V) [*Vespula squamosa*]
VDYCKIKCLKGGVHTACKYGTSTKPNCGNMVVKSYGVTQAEKQEILKIHNDFRNKVARGLE
ETRGNPGPQPPAKNMKNLWVWNELANIAQI WASQCCKYGHDTCKD'TTKYVNGQNI AVSSST
AAVYENVGNLVKAWENEVKDFNP'TISWEQNEFKKIGHYTMVWAKTKEIGCGSSIKYVDNN
WYTHYLVCNYGPAGNFGNQEVYERK

>accession|P35787.1|Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen Ves vi 5) (Ves vi V) [*Vespula vidua*]
KVNYCKIKCLKGGVHTACKYGTSTKPNCGKMMVVKAYGLTEAEKQEILKVHNDFRQKVAKG
LETRGNPGPQPPAKNMKNLWVWNELANIAQVWASQCNYGHDTCKDTEKYPVGQNI AKRST
TAALFDS PGKLVKMWENEVKDFNPNI EW SKNNL KKTGHYTMVWAKTKEIGCGSVKYVKD
EWYTHYLVCNYGPSGNFRNEKLYEKK

>accession|AAA28302.1|Allergen antigen 5 precursor [*Dolichovespula maculata*]
PIINLSFGEANNYCKIKCSRGIHTLCKFGTSMKPNCGSKLVKVHGVSNDEKNEIVNRHNQ
FRQKVAKGLETRGNPGPQPPAKNMKNLWVWNEDELAKIAQTWANQCSFGHDQCRNTEKYQVG
QNVIASTTGN SYATMSKLIEMWENEVKDFNP KKGTMGDNNF SKVGHYTMVWVGKTKEIG
CGSVKYIENNWHTHYLVCNYGPAGNYMDQPIY

>accession|AAC37218.1|Allergen apyrase [*Aedes aegypti*]
MAGRPGYSAVIFLYVVSVAVIARATDNMPPNKDVSKLFP'PLTIHINDLHARFEETNMKSN
ACTQKDQCIAGIARVYQKIKDLLKEYESKNPIYLNAGDNFQGT'LWYNLLRWNVTADFIKK
LKPAAMTLGNHEFDHTPKGLAPYLAELNKEGIPTIVANLVMNNDPDLKSSKIPKSIKLTV
GKRKIGIIGVLYDKTHEIAQTGKVTLSNAVEAVRREAAAALKKDKIDII VVLSHCSYEEDK
KIAAEAGDDIDVIVGAHSHSFLYSPDSKQPHDPKDKVEG'PYPTIVESKNKRKIPIVQAKS
FGKYVGR'LTLYFDDTGEVQHWE'GYPVFIDHKVQ'QDPQILKDLVPWREKVEAIGSTVVG'ET
KIELDRDSCRDQECTLG'VLYADGFADQY'TNDTFRPFAIIQAGNFRNPIKVGKITNGDIE
AAPFGSTADLIRLKGADIWDVAEHSFALDDEGRTNCLQVSGLRIVIDISKPIRSRVKKIE
VMDYTNPKSDELKPLDKQAEYYIVVPSY'ADGKDGFSAMKRATARRTGPLDSDVFKNYVE
KIKKVDNLKLRVIVCKGSKCT

>accession|Q08169.1|Allergen Hyaluronoglucosaminidase precursor (Hyaluronidase) (Hya) (Allergen Api m 2) (Api m II) [*Apis mellifera*]
MSRPLVITEGMMIGVLLMLAPINALLLGFVQSTPDNNKTVREFNVYWNVPTFMCHKYGLR
FEEVSEKYGILQNWMDKFRGEEIAILYD'PGMFPALLKDPNGNVVARNGGVPQLGNLTKHL
QVFRDHLINQIPDKSFP'GVGVIDFESWRP'IFRQNWASLQPYK'KLSVEVVRREHPFWDQQR
VEQEA'KRRFEKYGQLFMEETLKA'AKRMRPAANWGY'YAYPYCYNLTPNQPSAQCEATTMQE

NDKMSWLFESDVLPSVYLRWNLTSGERVGLVGGRVKEALRIARQMTTSRKKVLPYYWY
KYQDRRDTDLRADLEATLRKITDLGADGFI IWGSSDDINTKAKCLQFREYLNNELGPAV
KRIALNNNANDRLTVDVSDQV

>accession|P32936.2|Allergen Alpha-amylase/trypsin inhibitor CMB
precursor (Chloroform/methanol-soluble protein CMB) [Hordeum vulgare]
MASKSSCDLLLA AVLVSIFA AVAAVGSEDC TPWTATPITPLPSCR DYVEQQACRIETPGP
PYLAKQQCCGELANIPQQCRCQALRFFMGRKSRPDQSGLMELPGCPREVQMDVFRILVTP
GFCNLTTVHNTPYCLAMDEWQWNRQFCSS

>accession|CAA57160.1|Putative LepdI allergen, partial [Lepidoglyphus
destructor]
IHRGKMTLEAKFAANQDTAKVTIKVLAKVAGTTIQVPGLETGCKFIKCPVKKGEALDF
IYSGTIPAITPKVKADVTAELIGDHGVMACGTVHGQVE

>accession|AAA60330.1|Putative tropomyosin [Metapenaeus ensis]
MKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQVQESLLKANNQ
LVEKDKALSNAEGEVAALNRRIQLEEDLERSEERLNTATTKLAEASQAADSESRMRKVL
ENRSLSD EERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAEERAETGESKI
VELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAEFAERSVQKLQ
KEVDRLEDELVNEKEYKSITDELDQTFSELSGY

>accession|CAA57342.1|Putative alcohol dehydrogenase [Candida albicans]
MSEQIPKTQKAVVFD TNGGQLVYKDYVPVTPKPNELLIHVKYSGVCHTDLHARKGDWPLA
TKLPLVGGHEGAGVVVGMGENVKGWKIGDFAGIKWLN GSCMSCEFCQQAEPNCGEADLS
GYTHDGSFEQYATADAVQAAKIPAGTDLANVAPILCAGVTVYKALKTADLAAGQWVAISG
AGGGLGSLAVQYARAMGLRVVAIDGGDEKGEFVKSLGAEAYVDFTKDKDIVEAVKKATDG
GPHGAINVSVSEKAIDQSV EYVRPLGKVVLVGLPAHAKVTAPVFDVAVKSI EIKGSYVGN
RKDTAE AIDFFSRGLIKCPIKIVGLSDLPEVFKLMEEGKILGRYVLDTSK

>accession|S43242|Putative allergen-like protein Syr v I isoform 1 -
Syringa vulgaris [Syringa vulgaris]
EDVPQPPIPQFHIQGGVYCDTCRARFITEELSEFIPGASIRLQCKDRENGKITFTEIGYTR
AEGLYSMLVEGDHKNEFCEITLISSGREDCDEIPVEGWAKPSLKFKLNTVNGTTRTINPI
GFFKKEALPKCTQVYNKLGMYPPNM

>accession|S43243|Putative allergen-like protein Syr v I isoform 2 -
Syringa vulgaris [Syringa vulgaris]
EDVPQPPVPPQFHIQGGVYCDTCRARFITEELSEFIPGAGIRLQCKDGEHGKITFTEIGYTR
AEGLYSMLVEGDHKNEFCEITLLSSSRKDC E E IPIEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEVLPKCPQVFNKLGMYPPNM

>accession|S43244|Putative allergen-like protein Syr v I isoform 3 -
Syringa vulgaris [Syringa vulgaris]
EDVPQPPVPPQFHIQGGVYCDTCRARFITEELSEFIPGASIRLQCKDGENGKITFTEIGYTR
AEGLYSMLVEGDHKNEFCEITLISSGRKDCDEIPVEGWVKPSLKFKLNTVNGTTRTINPI
GFFKKEALPKCTQVYNKLGMYPPNM

>accession|AAB30434.1|Allergen albumin [Canis familiaris]
LSSAKERFKCASLQKFGDRAFKAWSVARLSQRFPKADFAEISKVVTDLTKVHKECCHGDL
LECADDRADLAKYMCENQDSISTKLKECCDKPVLEKSQCLAEVERDELPGDLPSLAADFV
EDKEVCKNYQEAKDVFLGTFLYEYSRRHPEYSVSLLLRLAKEYEATLEKCCATDDPPTCY
AKVLDEFKPLVDEPQNLVKTNCELF EKLGEYGFQNALLVRYTKKAPQVSTPTLVVEVSRK
LGKVGTKCCKKPESERMSCADDFLS

>accession|AAB07620.1|Putative Asp FII [Aspergillus fumigatus]
SARDEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDVIVNGDKANVL
FRCDNPDGNCALLEGWGGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPVAVGQGWVDHFADGYDEVIALAKSNGTESTHDSEAFEYFALEAYAFDIA
APGVGCAGESHGPDPQGHDTGSASAPASTSTSSSSSSGSGSGATTTPTDPSATIDVPSNCH
THEGGQLHCT

>accession|AAB32317.1|Allergen Cyn d Ib isoallergen {N-terminal} [Cynodon
dactylon]
AIGDKPGPKITATYXXXKWLKATFYGSNPRGAA

>accession|CAA59370.1|Allergen major allergen [Parietaria judaica]
MRTVSARSSVALVVIVA AVLVTSSASVAPAPAPGSEETCGTVVGALMPCLPFVQGEKE
PSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGKLVSEVPKHCGIVDSKLP
IDVNMDCCTLGVLHYKGN

>accession|P40918.1|Putative Heat shock 70 kDa protein (Allergen Cla h 4)
(Cla h IV) [Davidiella tassiana]
MAPAIGIDLGTTYSCVGIYRDDRIEIIANDQGNRTTPSFVAFDTERLIGDSAKNQVAIN
PHNTVFDARLIGRKFQDAEVQADMKHFPPFKVIEKAGKPVTVQVEFKGETKDFTPEEISSM
ILTKMRETAESYLGGTVNNAVITVPAYFNDSQRQATKDAGLIAGLNLRIINEPTAAAIA
YGLDKKQEGEKNVLIIFDLGGGTFDVSFLTIEEGIFEVKSTAGDTHLGGEDFDNRLVNHFS
NEFKRKHKKDLSDNARALRRLRTACERAKRTLSSSAQTSIEIDSLFEGIDFFTSNTRARF
EEVGQDLFRGNMEPGERTLRDDKIDKSSVHEIVLGGGSTRIPKVQKLVSDFFNGKEPCKS
INPDEAVAYGAAVQAAILSGDTSKSTKEILLLDVAPLSLGIETAGGVMTALIKRNTTIP
TKKSETFSTFSDNQPGVLIQVFEGERTKINLMGKFELSGIRPAPRGVPQIEVTFDL
ANGIMNVSALEKGTGKTNKIVITNDKGRLSKEEIERMLADAKEYKEEDEAEAGRIQAKNG
LESYAYS�KNTVSDPKVEEKL SAEDKETLTGAIDKTVAWIDENQTATKEEYEAQKQLES
VANPVMKIIYGAEGGAPGMPGQAGAPPPGAGDDGPTVEEVD

>accession|P39673.1|Putative Allergen Mag [Dermatophagoides farinae]
FVMKREPLRFRDITVEGNENAYIKNGKLHLSLMDPSTLSLVTKADGKIDMTVDLISPVTK
RASLKIDSKKYNLFHEGELSASIVNPRLSWHQYTKRDSREYKSDVELSLRSSDIALKITM
PDYNSKIHYSRQGDQINMDIDGTLIEGHAQGTIREGKIHIKGRQTD FEIESNYRYEDGKL
IIEPVKSENGKLEGLSRKVP SHLTLET PRVKMMKYDRYAPVKVFKLDYDGIHF EKHTD
IEYEPGVRYKIIIGNGKLDKDDGRHYSIDVQGI PRKAFNL DADLMDFKLVSKPEDSNKAQF
SYTFNEYTETEYEFDPH RAYVNWLSSIRKYIQNFIVEDN

>accession|P16311.2|Allergen Major mite fecal allergen Der f 1 precursor
(Der f I) [Dermatophagoides farinae]
MKFVLAIASLLVLSTVYARPASIKTFEEFKAFNKNYATVEEEEVARKNFLESKLYVEAN
KGAINHLSLSDLSDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQRCRRPNSQHYGISNYCQIYPPDVKQIREALTQHTAIAVI
IGIKDLRAFQHYDGRITIIQHNDNGYQPNYHAVNIVGYGSTQGDYWIWRNSWDTTWGDSDGY
GYFQAGNNLMMIEQYPYVIM

>accession|CAA26478.1|Putative Glycinin-like protein product [Glycine
max]
MGKPF TSLSSLCLLLLSSACFAISSKLNQCQLNNLNALEPDHRVESEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHSPSYSPYPRMIIIAQKGALGVAIPGCPETFEEPQE QSN
RRGSRSQKQQLQDSHQKIRHFNEGDVLVIPPVSPYWTYNTGDEPVVAISLLDTSNFMNQ
DQTPRVFYLAGNPDI EYPETMQQQQQKSHGGRKQGHQEQEEEEEGGSVLSGFSKHFLAQ

SFNTNEDIAEKLESPDDERKQIVTVEGGLSVISPKWQEQDEDEDEDEDEDEDEQIPSHPP
RRPSHGKREQDEDEDEDEDEDEKPRPSRPSQGKRNTGQDEDEDEDEDEDEQPRKSREWRSKKTQP
RRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPALR
QFQLSAQYVVLYKNGIYSPHWNLNANSVIYVTRGQGKVRVNCQGNVFDGELRRGQLLV
VPQNFVVAEQAGEQGFYIVFKTHHNAVTSYLKDFRAIPSEVLAHSYNLRQSQVSELKY
EGNWGPLVNPESQOGSPRVKVA

>accession|CAA27052.1|Allergen glutenin [Triticum aestivum]
MAKRLVLFVAVVVALVALTVAEGEASEQLQCERELQELQERELKACQQVMDQQLRDISPE
CHPVVVSFVAGQYEQQIVVPKGGSFYPGETTPPQQQLQQRIFWGI PALLKRYYP SVTSPQQ
VSYYPGQASPQRPGQGQQPGQGQQSGQGQQGYPTSPQQPGWQQPEQGGQPGYYPTSPQQ
PGQLQQAQGGQQPGQGQQGRQPGQGQPGYYPTSSQLQPGQLQQAQGGQQGGQQPGQGQQG
QPGQGQQPGQGQQGGQQPGQGQQPGQGQQGQLGGQQGYPTSLQQSGQGQPGYYPTSLQ
QLGGQSGYYPTSPQQPGQGQQPGQLQQAQGGQQPEQGGQQGGQQPGQGQQGGQQPGQGQQPG
QGQPGYYPTSPQQSGQGQPGYYPTSSQQPTQSQQPGQGQQGGQQVGGQQAQQPGQGQQPG
QGQPGYYPTSPQSGQGQPGYYLTSPQQSGQGQQPGQLQQAQGGQKGGQPGQGQQPGQGQ
QGQQPGQGQQGGQQPGQGQPGYYPTSPQQSGQGQQPGWQQPGQGQPGYYPTSPQLQPGQGQ
PGYDPTSPQQPGQGQQPGQLQQAQGGQQGQLAQQGGQQPAQVQQGGQQPAQGGQQGQLG
QGQQGGQQPGQGQQPAQGGQQGGQQPGQGQQGGQQPGQGQQPGQGQPWYYPTSPQESGGQQPG
QWQQPGQWQQPGQGQPGYYLTSPQLQGGQQGYPTSLQQPGQGQQPGWQQSGQGQHGY
YPTSPQLSGQGQRPGQWLQPGQGQQGYPTSPQQSGQGQQLGQWLQPGQGQQGYPTSLQ
QTGGQQSGQGQQGYSSYHVSVEHQAAASLKVAKAQQQLAAQLPAMCRLEGGDAL SASQ

>accession|2008179A|Allergen major allergen Par j I [Parietaria judaica]
MVRALMPCLPFVQGEKEPSKGCSSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGK
LVSEVPKHCIGIVDSKLPIDVNMDCKTGTVGVPRQPQLPVSLRHGPVTGPRSRSRPPTKHW
RDRPLEFRPPHRKKPNPAFSTLG

>accession|CAA58646.1|Allergen Mal d 1 [Malus domestica]
MGVYTFENEFTSEIPPSRLFKAFVLDADNLIPKIAQAIKQAEILEGNNGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKVGEKEKAHGLFKLIESYLKDHDPDAYN

>accession|CAA26040.1|Allergen ovomucoidin [Gallus gallus]
MKLILCTVLSLGLIAAVCF AAPPKSVIRWCTISSPEEKKCNLRDLTQQERISLTCVQKAT
YLDCIKAIANNEADAI SLDDGGQVFEAGLAPYKLPKPIAAE IYEHTEGSTTSYAVAVVKKG
TEFTVNDLQGKNSCHTGLGRSAGWNIPIGTL LHWGAI EWEGIESGSVEQAVAKFFSASCV
PGATIEQKLCRQCKGDPKTKCARNAPYSYGAFHCLKDGDVAFVKHTTVNENAPDLN
DEYELLCLDGSRQPVDNYKTCNWARVAHAHVARDDNKVEDIWSFLSKAQSDFGVDTKSD
FHLFGPPGKKDPVLKDFLFKDSAIMLKRVP SLMDSQLYLGF EYSAIQSMRKDQLTPSPR
ENRIQWCAVGKDEKSKCDRWSVVSNGDVECTVVDET KDCI IKIMKGEADAVALDGGGLVYT
AGVCGLVPMVAERYDDESQC SKTDERPASYFAVA VARKDSNVNWN NLKGKKSCHTAVGRT
AGWVIPMGLIHNRTGT CNFDEYFSEGCAPGSPNSRLCQLCQSGGIPPEKCVASSHEKY
FGYTGALRCLVEKGDVAFIQHSTVEENTGGKKNADWAKNLQMDDFELLCTDGRRANVMDY
REC NLAEVPTHAVVVRPEKANKIRDLLERQEKRFVNGSEKSKFMMFESQNKDLLFKDLT
KCLFKVREGTTYKEFLGDKFYTVISNLKTCNPSDILQMCSFLEGK

>accession|CAA60533.1|Putative A5A4B3 subunit [Glycine soja]
MGKPFTLSLSSLCLLLLSSACFAISSSKLNECQLNNLNALEPDHRVESEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHLPSSPYPRMII IAQGGALGVAIPGCPETFEEPQE QSN
RRGSRSQKQLQDSHQKIRHFNEGDVLVIPPVGPYWTYNTGDEPVVAISLLDTSNFMNQ
DQTPRVFYLAGNPDI EYPETMQQQQQQKSHGGRKQGQHQQEEEEEGGSVLSGFSKHFLAQ
SFNTNEDIAEKLESPDDERKQIVTVEGGLSVISPKWQEQDEDEDEDEDEDEDEQIPSHPP
RRPSHGKREQDEDEDEDEDEKPRPSRPSHGKREQDQDQDEDEDEDEDEDEQPRKSREWRSKKTQ

PRRPRQEEPRERGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPAL
RQFQLSAQYVVLYKNGIYSPHWNLNANSVIYVTRGQKVRVNCQGNVFDGELRRGQLL
VVPQNFVVAEQAGEQGFYIVFKTHHNAVTSYLKDVFRAPSEVLHASYNLRQSQVSELK
YEGNWGPLVNPESQQGSPRVKVA

>accession|AAB32224.1|Putative major allergen p Dp 15 [Dermatophagoides
pteronyssinus]

MSQPILGYWDIRGYAQPIRLLLTYSGVDFVDKRYQIGPAPDFDRSEWLNEKFNGLGLDFPN
LPYYIDGDMKMTQTFAILRYLGRKYKLNKSNDEEIRISMAEQQTEDMMAAMIRVCYDAN
CDKLPDYLSLDPCLKLSKLVGEHAFIAGANISYVDFNLYEYLCHVKVMVPEVFGQFE
NLKRYVERMESLPRVSDYIKKQQPKTFNAPTSKWNASYA

>accession|BAA06905.1|Putative pre-pro-cucumisin [Cucumis melo]

MSSSLIFKLFSSFFSNRLASRLDSDDDGKNIYIVYMGRKLEDPDSAPHLHHRAMLEQVV
GSTFAPESVLHTYKRSFNNGFAVKLTEEEAEKIASMEGVVSVFLNEMNELHTTTRSWDFLGF
PLTVPRRSQVESNIIVGVLDGTGIWPESPSFDDEGFSPPPPKWKGTCTETSNNFRCNRKIIG
ARSYHIGRPI SPGDVNGPRDTNGHGTHTASTAAGGLVSOANLYGLGLGTARGGVPLARIA
AYKVCWNDGCSDDTDLAAAYDDAIADGVDIISLSVGGANPRHYFVDAIAIGSFHAVERGIL
TSNSAGNGGPNFFTTASLSPWLLSVAASTMDRKFVTVQVQIGNGQSFQGVINTFDNQYYP
LVSGRDIPTNGFDKSTSRFCTDKSVNPNLLKGIIVVCEASFGPHEFFKSLDGAAGVLMTS
NTRDYADSYPLPSSVLDPNLLATLRYIYSIRSPGATIFKSTTILNASAPVVVSFSRGP
NRATKDVIKPDISGPGVEILAAWPSVAPVGGIRRNTLFNIISGTSMSCPHITGIATYVKT
YNPTWSPAAIKSALMTTASPMNARFNPQAEFAYGSGHVNPLKAVRPGLVYDANESDYVKF
LCGQGYNTQAVRRITGDYSACTSGNTGRVWDLNYPSPGLSVSPSQTFNQYFNRTLTSVAP
QASTYRAMISAPQGLTISVNPVLSFNGLGDRKSFTLTVRGSIKGFVVSASLVWSDGVHY
VRSPITITSLV

>accession|CAA23682.1|Allergen Ovalbumin-like protein [Gallus gallus]

MGSIGAASMEFCFDVFKELKVHHANENIFYCPIAIMSALAMVYLGAKDSTRTQINKVVRF
DKLPGFGDSIEAQCGTSVNVHSSRLDILNQITKPNVYSFSLASRLYAEERYPILPEYLQ
CVKELYRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQSSVDSQTAMVLVNAIV
FKGLWEKTFKDEDQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPPFASGTM
SMLVLLPDEVSGLEQLESIIINFEKLTWETSSNVMEERKIKVYLPRMKMEEKYNLTSVLM
MGITDVFSSANLSGISSAESLKISQAVHAAHAEINEAGREVVGSAEAGVDAASVSEEF
ADHPFLFCIKHIATNAVLFFGRCVSP

>accession|CAA60628.1|Putative BETV4 protein [Betula pendula]

MADDHPQDKAERERIFKRFDANGDGKISAAELGEALKTLGSITPDEVKHMMAEIDTDGDG
FISFQEFDTDFGRANRGLLKDVAKIF

>accession|AAB01362.1|Allergen Ap15 [Malus x domestica]

MGVYTFENEYTSIIPPRFLKAFVLDADNLIPKIAQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKKHIDSVDANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKHPDAYN

>accession|CAA59279.1|Putative albumin precursor [Felis catus]

MKWVTFISLLLLFSSAYSRGVTRREAHQSEIAHRFNDLGEHFRGLVLVAFSQYLQCCPF
EDHVKLVNEVTEFAKGCVADQSAANCEKSLHELLGDKLCTVASLRDKYGEADCCCKEP
ERNECFLQHKDDNPGFGQLVTPEADAMCTAFHENEQRFLGKLYEIIARRHPYFYAPEL
YAEYKGVFTECCAAADKAACTPKVDALREKVLASSAKERLKCASLQKFGERAFAKAWSV
ARLSQKFPKAEFAEISKLVTDLAKIHKECCHGDLLECADDRADLAKYICENQDSISTKLL
ECCGKPVLEKSHCISEVERDELPAADLPPLAVDFVEDKEVCKNYQEAKDVFGLGTFLEYEY
SRHPEYSVSLLLRLAKEYEATLEKCCATDDPPACYAHVFDEFKPLVEEPHNLVKTNCELFE
KLGEYGFQNALLVRYTKKVPQVSTPTLVEVSRSLGKVGSKCCTHPEAERLSAEDYLSVV

LNRLCVLHEKTPVSEKCTESLVNRRPCFSAALQVDETYVPKEFSAETFTFHADLCTL
PEAEKQIKKQSALVELLKHKPKATEEQKLTVMGDFGSFVDKCCAAEDKEACFAEEGPKLV
AAAQAALA

>accession|CAA88833.1|Allergen major allergen [Malus x domestica]
MGVYTFENEFTSEIIPPSRLFKAFVLDADNLIKPIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTDIEKISYETKLVACGSGATIKSISHY
HPKGNIEIKEEHVKVKGKEKGHGLFKLIESYLKGHPDAYN

>accession|CAA59338.1|Putative low molecular weight glutenin [Triticum
aestivum]
FALIAVVATSTIAQMETSICIPGLERPWQQQPLPPQQTLFPPQQQPFPPQQQPPFSQQQPSFS
QQQPPFSQQQPILPEPPFSLQQQPVLPPQQSPFSQQQLVLPQQQQQLPQQQISIVQPSVL
QQLNPKVFLQQQCSPVAMPQRLARSQMWWQSRCHVMQQCCQQLSQIPEQSRDAICAI
TYSIILQEQQQGFVQAQQQPQQSGQGVSSQQQSQQLGQCSFQQPQQ

>accession|CAA59339.1|Putative low molecular weight glutenin [Triticum
aestivum]
HIPSLEKPLQQQPLPLQQILWYQQQQPIQQQPQFPFPQQPPCSQQQQPPLSQQQQPPFSQQ
QPPFSQQQPILPQQPPFSQQQQQFPQQQQPLLPQQPPFSQQQPPFSQQQQPPFSQQQQ
QPILLQQPPFSQHQQPVLPPQQIPSVQPSILQQLNPKVFLQQQCSPVAMPQSLARSQML
WQSSCHVMQQCCRQLPQIPEQSRDAIRAI IYSIVLQEQQHGQGLNQPQQQPQQSVQG
VSQPQQQQKQLGQCSFQQPQQ

>accession|CAA59340.1|Putative low molecular weight glutenin [Triticum
aestivum]
HIPSLEKPSQQQPLPLQQILWYHQQQPIQQQPQFPFPQQPPCSQQQQPPLSQQQQPPFSQQ
QPPFSQQQLPILPQQPPFSQQQQQPFQQQQPLLLQQPPFSQQRPFSQQQQQ
PVLPPQQPPFSQQQQQPILPQQPPFSLHQQPVLPPQQIPYVQPSILQQLNPKVFLQQQC
SPVAMPQSLARSQMLWQSSCHVMQQCCQQLPRIPEQSRDAIRAI IYSIVLQEQQHGQ
FNQPQQQQPQQSVQGVSPQQQQKQLGQCSFQQPQQ

>accession|AAB48072.1|Allergen allergen and phospholipase A1 [Vespula
vulgaris]
MEENMNLKYLLEFVYFVQVLNCCYGHGDPLSYELDRGPKCPFNSDTVSI I IETRENRRD
LYTLQTLQNHPEFKKKTITRPFVFI THGFTSSASETNFINLAKALVDKDNMVISIDWQT
AACTNEAAGLKYLYPTAARNTRLVGQYIATITQKLVKHYKISMANIRLIGHSLGAHASG
FAGKKVQELKLGKYSEI IGLDPARPSFDSNHC SERLCETDAEYVQI IHTSNYLGTEKTLG
TVDFYMNNGKNQPGCRFFSEVCSHSRAVIYMAECIKHECCLIGIPKSKSSQPISSCTKQ
ECVCVGLNNAKKYPSRGSFYVPVESTAPFCNNKGKII

>accession|CAA24933.1|Allergen HMW gluten-like protein product [Triticum
aestivum]
EKLGGQQPQWLQPRQGGQGYPTSPQQSGQQQLGQQGQGYPTSPQQSGQQGYDS
PYHVSAEHQAASLKVAKAQQQLAAQLPAMCRLEGGDALLASQ

>accession|AAA78904.1|Allergen allergen precursor [Blomia tropicalis]
MKSVLIFLVAIALFSANIVSADEQTTRGRHTEPDDHHEKPTTQCTHEETTSTQHHHEEVV
TTQTPHHEEKTTEETHSDDLIVHEGGKTYHVVCHEEGPIHIQEMCNKYI ICSKSGSLW
YITVMPCSIGTKFDPI SRNCVLDN

>accession|AAB32842.1|Allergen Der p V allergen [Dermatophagoides
pteronysinus]
MKFIIAFFVATLAVMTVSGEDKKHDYQNEFDLLMERIHEQIKKGELALFYLQEQINHFE

AKPTKEMKDKIVAEMDTI IAMIDGVRGVLDRMLQRKDL DIFEQYNLEMAKKSGDILERDL
KKEEARVKKIEV

>accession|CAA51775.1|Allergen allergen Lol p II [Lolium perenne]
EFTVEKGSDEKNLALS I KYSKEGDAMA EVELKEHGSNEWLAL KKNKNGDGVWEIKSDKPLKG
PFNFRFVSEKGMWNVFDDVVPADFKVGT

>accession|CAA59419.1|Putative aspergillopepsin i [Aspergillus fumigatus]
MVFVSKVTAVVVGLSTIVSAVPVQPRKGFTINQVARPVTNKKTVNLPVYANALTKYGG
TVPDSVKA AASSGSAVTTPEQYDSEYLTPVKVGGTTLNLD FDTGSADLWVFSSELSASQS
SGHAIYKPSANAQKLNQYTWKIQYGDGSSASGDVYKDTVTVGGVTAQSQAVEAASHISSQ
FVQDKNDG LLGLAFSSINTVSPRPQTTFDFTVKSQ LDSPLFAVTLKYHAPGTYDFGYID
NSKFQGELTYTDVSSQGFWMFTADGYGVGNAPNSNSISGIADTGTLLLLLDDSVVADY
YRQVSGAKNSNQYGGYVFPCKLPSFTTVIGGYNAVVPGEYINYAPVTDGSSTCYGGIQ
SNSGLGFSIFGDIFLKSQYVVFDSQGPRLGFAPQA

>accession|CAA54587.1|Allergen PmaI [Parietaria judaica]
MVRALMPCLPFVQGEKEPSKGCSSGAKRLDGETKTGPQRVHACECIQTAMKTYSDIDGK
LVSEVPKHCGIVDSKLPIDVNMDCKTVGVVPRQPQLPVSLRHGPVTGSPDPAHKARLER
PQIRVPPPAPEKA

>accession|BAA04149.1|Allergen proteinase inhibitor [Solanum tuberosum]
MKCLFLLCLCLVPIVVFSSFTSKNPINLPSDATPVL DVAGKELDSRLSYRIISTFWGAL
GGDVLGKSPNSDAPCANGIFRYNSDVGPSGTPVRFI GSSSHFGQGIFENELLNIQFAIS
TSKLCVSYTIWKVGDYDASLGTMLLETGGTIGQADSSWFKIVKSSQFGYNLLYCPVTSTM
SCPFSSDDQFCLKVGVVHQNGKRRLLALVKDNPLDVSFKQVQ

>accession|AAB34365.1|Allergen major baker's asthma allergen Sec c
1=alpha-amylase/trypsin inhibitor homolog {N-terminal} [Secale cereale]
EQCYGESCRVKGKSI SNNPVPA CREYV

>accession|AAB34785.1|Putative 68 kDa allergen [Penicillium chrysogenum]
GPYKWTQRIYDYDFLTNLTSSEANDIIGAEAPLWSEQVDDVTVSSVFWPRAAALGELVWS
GNRDAAGRKRRTTSFTQRILNFR EYLVANGVMAAALVPKYCLQHPHACDLYKNQTVMS

>accession|CAA58755.1|Putative Lep D 2 allergen precursor [Lepidoglyphus
destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLETGCKVLKCP I KKG EALDFNYGMTIPAITPKIKADV
TAE LVGDHGMACGTI HQVE

>accession|CAA50008.1|Putative mung bean seed albumin [Vigna radiata var.
radiata]
MSNLPYINAAFRFSSRDYEVYFFAKNKYVRLQYTPGKTEDKILTNLRLISSGFPSLAGTP
FAEPGIDSAFHTEASEAYVFSANNRAYIDYAPGTTNDKILAGPTTIAEMFPVLRNTVFAD
SIDSAFRSTKGKEVYLFKGNKYVRIDYDSKQLVGSIRNISDGFPVLNGTGFESGIDASFA
SHKEPEAYLFGKDKYVRIHFTPGKTD DTLVGDV RPI LDGWPVLKAFCLCELNKPSLSGIN
HLSLVTINKAFISNVCLFFFNVTLGLEACFLS

>accession|AAB34907.1|Allergen group 1 Car b 1=isoallergenic variant
[Carpinus betulus]
GVFNIEAETPSVMPAARLFKSYVLDFDKLIPKVAPQVISSVENVGGNGGPGTIKNITFAE
GIPFKFVKERVDEVDNANFK

>accession|AAB34908.1|Allergen group 1 Car b 1=isoallergenic variant
[Carpinus betulus]
GVFNYEAEETPSVIPAAARLFKSYVLDFDKLIPKVAPQVISSVENVGGNGGPGTIKNITFAE
GIPFKFVKERVDEVDNANFK

>accession|AAB34909.1|Allergen group 2 Car b 1=isoallergenic variant
[Carpinus betulus]
GVFNYEAEETTSVIPAAARLFKAFILDGNKLIPKVSPQVVSSVENVEGNGGPGTIKKITFSE
GIPVKYVKERVEEIDHTNFK

>accession|CAA62909.1|Allergen allergen sin a 1.0104 [Sinapis alba]
PAGPFGIPKCRKEFQQAQHLRACQQLWHLKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELPVCPTLKGASKAVKQQVRQQLGQQGQQGPHLQHVISRIYQTA
THLPRVCNIRQVSVCPFKTTPMGPS

>accession|CAA62910.1|Allergen allergen sin a 1.0105 [Sinapis alba]
PAGPFRIPKCRKEFQQAQHLRACQQLWHLKQAMQSGSGPSWTLGEGFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELPVCPTLKGASKAVKQQVRQQLGQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTPMGPS

>accession|CAA62911.1|Allergen allergen sin a 1.0106 [Sinapis alba]
PAGPFGIPKCRKEFQQAQHLRACQQLWHLKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELPVCPTLKGASKAVKQQVRQQLGQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTPMGPS

>accession|CAA62912.1|Allergen allergen sin a 1.0107 [Sinapis alba]
PAGPFRIPKCRKEFQQAQHLRACQQLWHLKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELPVCPTLKGASKAVKQQVRQQLGQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTPMGPS

>accession|CAA62908.1|Allergen allergen sin a 1.0108 [Sinapis alba]
PAGPFGIPKCRKEFQQAQHLRACQQLWHLKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
KPPLLQCCNELHQEELPVCPTLKGASKAVKQQVRQQLGQQGQQGPHLQHVISRIYQTA
THLPKVCNIPQVSVCPFKKTPMGPS

>accession|AAA80264.1|Allergen Der p 7 allergen polypeptide
[Dermatophagoides pteronyssinus]
MMKLLLIAAAFAVAVSADPIHYDKITEEINKAVDEAVAAIEKSETFDPMKVPDHSKDFER
HIGIIDLKGELDMRNIQVRGLKQMKRVGDANVKSSEDGVVKAHLLVGVHDDVVSMEYDLAY
KLGDLHPNTHVISDIQDFVVELSLEVSEEGNMTLTSFEVRQFANVVNHIGGLSILDPIFA
VLSVDVLTAFQDQTVRAEMTKVLAPAFKKELENNQ

>accession|BAA11251.1|Allergen gamma-gliadin precursor [Triticum
aestivum]
NIQVDPSGQVQWPQQQFPFQPHQPFSSQQPQQTFFPQPQQTFFPHQPQQQFSQPQQPQQQFIQ
PQQPFPQQPQQTYPQRPQQPFPQTQQPQQPFPQSQQPQQPFPQPPQQQFPQPQQPQQSFPQ
QQPSLIQQSLQQQLNPKCNFLQCKPVSLVSSLWSMILPRSDCQVMRQQCCQQLAQIPQ
QLQCAAIHSIVHSIIMQQEQEQRQGVQILVPLSQQQVGGQTLVQGGQIIQPQQPAQLE
VIRSSVLQTLATMCNVYVPPYCYSTIRAPFASIVAGIGGQ

>accession|2023228A|Allergen major allergen Phl p Va [Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLEKINAGFKAALAGAGVQP
ADKYRTFVATFGPASNKAFAGELSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATPE
AKYDAYVATLSEALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAANA

APANDKFTVFEEAFNDEIKASTGGAYESYKFI PALEAAVKQAYAATVATAPEVKYTVFET
ALKKAITAMSEAQKAAKPPPLPPPPQPPPLAATGAATAATGGYKV

>accession|2103117A|Putative allergen Dac g II [Dactylis glomerata]
EAPVTFTVEKGSDEKNLALS IKYNKEGDSMAEVELKEHGSNEWLALKKNGDGVWEIKSDK
PLKGFNFRVSEKGMNRNVFVDVVPADFKVGTTYKPEEAAAASARRRSSEVFQFLILSCQ
GRIVNNCEVLICVMRRGNAMCLIASISMHHILTDRFFFDGLEIIYKIFKMMFQKPRTRT
CIEKDFPRRSSSSIPT

>accession|AAB38064.1|Putative thaumatin-like protein precursor [Prunus
avium]
MMKTLVVVLSLSLTILSFGGAHAATISFKNNPCYMWVPGTLTSDQKPQLSTTGFE LASQA
SFQLDTPVPWNGRFWARTGCSTDASGKFCATADCASGQVMCNGNGAIPATLAEFNIPA
GGGQDFYDVSLVDGFNLPMSVTPQGGTGDCKTASCPANVNAVCPSELQKKGSDGSVVACL
SACVKFGTPQYCTPPQNTPETCPPTNYSEIFHNACPDAYSAYDDKRGTFTCNNGPNYA
ITFCP

>accession|AAA87851.1|Allergen allergen Bla g 4 [Blattella germanica]
AVLALCATDTLANEDCFRHELVNLDYERFRGSWIIAAGTSEALTQYKCWIDRFSYDDA
LVSKYTDSQGNRTTIRGRTKFEGNKFTIDYNDK GKAFSAPYSVLATDYENYAIVEGCPA
AANGHVIYVQIRFSVRRFHPKLGDKEMI QHYTLDQVNVQHKKAI EEDLKHFNLYEDLHST
CH

>accession|CAA93121.1|Putative protein with incomplete signal sequence
[Holcus lanatus]
VFLGSAHGIKVPPGNITATYGDWLDKSTWYGKPTGAGPKDNGGACGYKDVKPPFFS
GMTGCGNTPIFKDGRGCGSCFEIKCSKPESCSGEPVTVHITDDNEEPIAPYHFDLSGHAF
GSMAKKGEEQKLR SAGELELKFRRVKCKYPDGTGKPTFFHVEKGSNPNYLALLVKYIDGDGD
VVAVDIKEK GKDKWIELKESWGAVWRVDTDPDKLTGPFVTVRYTTEGGTKGEAEDVIPEGWK
ADTAYEAK

>accession|P43237.1|Allergen Allergen Ara h 1, clone P17 precursor (Ara h
I) [Arachis hypogaea]
MRGRVSPLMLLLGILVLASVSATQAKSPYRKTENPCAQRCLQSCQQEPDDLKQKACESRC
TKLEYDPRCVYDTGATNQRHPPGERTGRQPGDYDDRRQPRREEGGRWGPAEPRERERE
EDWRQPREDWRRPSHQQRKIRPEGREGEQEWTGPGSEVREETSRRNPFYFPSRRFSTRY
GNQNGRIRVLQRFDRSQFQNLQNHRI VQIEARPNTLVLPKHADADNILVIQQGQATVT
VANGNNRKSFNLDGHALRIPSGFISYILNRHDNQNLRVAKISMPVNTPGQFEDFFPASS
RDQSSYLQGF SRNTLEAAAFNAEFNEIRRVLLEENAGGEQEERGQRRRSTRSSDNEGVIVK
VSKEHVQELTKHAKSVSKKGSEEDITNPINLRDGEPLDLSNFGRLFEVKPDKKNPQLQD
LDMMLT CVEIKEGALMLPHFNSKAMVIVVVKGTGNLELVAVRKEQQQRGRREQEWE EEE
EDEEEGSGNREVRRYTARLKEGDVFIMPAHPVA INASSELHLLGFGINAENNHRI FLAG
DKDNVIDQIEKQAKDLAFPGSGEQVEKLIK NQRESHFVSARPQSQSPSSPEKEDQEEENQ
GGKGPLLSILKAFN

>accession|P43238.1|Allergen Allergen Ara h 1, clone P41B precursor (Ara
h I) [Arachis hypogaea]
MRGRVSPLMLLLGILVLASVSATHAKSSPYQKKTENPCAQRCLQSCQQEPDDLKQKACES
RCTKLEYDPRCVYDPRGHTGTNQRSPPGERTGRQPGDYDDRRQPRREEGGRWGPAEP
REREREEDWRQPREDWRRPSHQQRKIRPEGREGEQEWTGPGSHVREETSRRNPFYFPSR
RFSTRYGNQNGRIRVLQRFDRSRQFQNLQNHRI VQIEAKPNTLVLPKHADADNILVIQQ
GQATVTVANGNNRKSFNLDGHALRIPSGFISYILNRHDNQNLRVAKISMPVNTPGQFED
FFPASSRDQSSYLQGF SRNTLEAAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSEN
NEGVIVKVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPDLSNFGKLFVVKPDK

KKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVVKGTGNLELVAVRKEQQQRGR
EEEEDEDEEEEGSNREVRRTARLKEGDVFIIMPAAHPVAINASSELHLLGFGINAENNHR
IFLAGKDNVIDQIEKQAKDLAFPGSGEQVEKLIKNOKESHFVSARPQSQSQSPSSPEKE
SPEKEDQEEENQGGKGPLLSILKAFN

>accession|P42058.1|Putative Minor allergen Alt a 7 (Alt a VII)
[*Alternaria alternata*]
MAPKIAIVYYSMYGHIKKMADAELKGIQEAGGDAKLFQVAETLPQEVLDMYAPPKDVSSV
PVLEDPVLEEFDGILFGIPTRYGNFPAQFKTFWDKTGKQWQQGAFWKGKYAGVVFVSTGTL
GGGQETTAITSMSTLVDHGFYVPLGYKTAFSMLANLDEVHGGSPWGAGTFSAGDGSRQP
SELELNIAQAQKAFYEAVAKAHQ

>accession|P43180.2|Allergen Major pollen allergen Bet v 1-G (Bet v I-G)
[*Betula pendula*]
MGVFNYESSETTSVIPAAARLFKAFILEGDNLIPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>accession|P43186.2|Allergen Major pollen allergen Bet v 1-M/N (Bet v I-
M/N) [*Betula pendula*]
MGVFNYESSETTSVIPAAARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHSDAYN

>accession|P30438.2|Allergen Major allergen I polypeptide chain 1 major
form precursor (Allergen Fel d 1-A) (Fel d I-A) (Allergen Cat-1) (Fel dI)
(AG4) [*Felis catus*]
MKGACVLVLLWAAALLLISGNCEICPAVKRDVDLFLTGTPDEYVEQVAQYKALPVVLENA
RILKNCVDAKMTEEDKENALSVLDKIYTSPLC

>accession|P46436.3|Allergen RecName: Full=Glutathione S-transferase 1;
AltName: Full=GST class-sigma [*Ascaris suum*]
MPQYKLTIFYDIRGLGEGARLIFHQAGVKFEDNRLKREDWPALPKPTPFGQLPLLEVDGEV
LAQSAAIYRYLGRQFGLAGKTPMEEAQVDSIFDQFKDFMAELRPCFRVLAGFEEGDKEKV
LKEVAVPARDKHLPLLEKFLAKSGSEYMGKSVTWADLVITDSLASWESLIPDFLSGHLQ
LKKYIEHVRELPNIKKWIAERP KTPY

>accession|P43212.1|Allergen Polygalacturonase precursor (PG) (Pectinase)
(Major pollen allergen Cry j 2) (Cry j II) [*Cryptomeria japonica*]
MAMKFIAPMAFVAMQLIIMAAEDQSAQIMLDSIDIEQYLRNRSRLRVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNRNLWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSNPNTDGDIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSIVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDSLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKESKSHKHPKTVMVKNMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SRHGKIYHP

>accession|P42037.1|Putative RecName: Full=60S acidic ribosomal protein
P2; AltName: Full=Minor allergen Alt a 5; AltName: Full=Allergen Alt a 6;
AltName: Full=Allergen Alt a VI; AltName: Allergen=Alt a 5 [*Alternaria
alternata*]
MKHLAAYLLLGLGGNTSPSAADV KAVLESV GIEADSDRLDKLISELEGKDINELIASGSE

KLASVPSGGAGGAAASGGAAAAGGSAQAEAAPEAAKEEEKEESDEDMGFGLFD

>accession|AAA86533.1|Putative Ory s 1 [Oryza sativa]
MASSLLLLACVVVAAMVSPSPAGHPKVPPGPNITTSYGDKWLEARPPGMVRPRLAPKDN
GGACGYKDVDPKAPFLGMNSCGNDPIFKDGKGCSCFEIKCSKPEACSDKPALIHVTDMDN
EPIAAYHFDLSGLAMAKDGKDEELRKAGIIDTQFRRVKCKYPADTKITFHIEKASNPNYL
ALLVKYVAGDGDVVEVEIKEKGSSEWKALKESWGAIWRIDTPKPLKGFPSVRVTTEGARR
SSAEDAIPDPGRRQRVQVNVQAK

>accession|AAA86744.1|Allergen aspartic protease precursor [Blattella
germanica]
MIGLKLVTVLFVAVATITHAAELQRVPLYKLVHVFINTQYAGITKIGNQNFLTVDSTSCN
VVVASQECVGGACVCPNLQKYEKLPKYISDGNVQVKFFDTGSAVGRGIEDSLTISNLTT
SQQDIVLADELQSQEVCI LSADVVGIAAPGCPNALKGKTVLENFVEENLIAPVFSIHHAR
FQDGEHFGEIIFGGSDWKYVDGEFTYVPLVGDSDWKFRLDGVIKIDTTVAPAGTQAIIDT
SKAIIIVGPKAYVNPINEAIGCVVEKTTTRRICKLDCSKIPSLPDVTFVINGRNFNISSQY
YIQQNGNLCYSGFQPCGHSDFHFIGDFFVDHYSEFNWENKTMGFGRSVESV

>accession|AAA87456.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSFPSRTTVMLLLFFFAASVGITDAQVGCYGMQGNLPPVSEVIALYK
KSNITRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNP SNAKSWVQKNVRGFWSSV
LFRYIAVGNEISPVNRTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEV VVSESGWPSAGAF AATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>accession|AAB09252.1|Putative 34 kDa maturing seed vacuolar thiol
protease precursor [Glycine max]
MGFLVLLLFSLGLSSSSSISTHRSILDLDLTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNNSNYIRDMNANRKS PHSRLGLNKFADITPQEFSSKYLQAPKDVSSQIKM
ANKKMKKEQYSCDHPPASWDWRKKGVITQVKYQGGCGRGWAFSATGAIEAAHAIATGDLV
SLSEQELVDCVEESESEGSYNGWQYQSF EWVLEHGGIATDDDYPYRAKEGRCKANKIQDKVT
IDGYETLIMSDESTESETEQAFLSAILEQPI SVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGVYWIAKNSWGEDWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDHSPL

>accession|BAA05540.1|Putative prepro AprM [Bacillus sp.]
MRQSLKVMVLSTVALLFMANPAAASEEKKEYLIVVEPEEVSQAQSVEESYDVDVIHEFEI
PVIHAELTKKELKKLKDPNVKAIEENA EVTISQTPWGISFINTQQAHNRGIFGNGARV
AVLDTGIASHPDLRIAGGASFISSEPSYHDNNGHGHVAGTIAALNNSIGVLGVAPSADL
YAVKVLDRNGSGSLASVAQGI EWAINNNMHI INMSLGSTSGSSTLELAVNRANNAGILLV
GAAGNTGRQGVNYPARYSGVMAVAVDQNGQRASFSTYGP EIEISAPGVNVNSTYTGNRY
VLSLGTSMATPHVAGVAALVKSRYPSTYNNQIRQRINQ TATYLGSPSLYGNGLVHAGRAT
Q

>accession|CAA01909.1|Putative B1 protein allergen [Cynodon dactylon]
GTRRFDTNGDGKISLAELTDALRTL GSTSADEVQRMMAEIDTDGDGFIDFDEFISFCNAN
PGLMKDVAKVF

>accession|CAA01910.1|Putative B4 protein allergen [Cynodon dactylon]
GTSFKRFDTNGDGKISLAELTDALRTL GSTSADEVQRMMAEIDTDGDGFIDFDEFISFCN
ANPGLMKDVAKVF

>accession|BAA09634.1|Putative calcium-binding protein [*Brassica rapa*]
MADAEHERIFKKFDTGDGKISAAELEEALKKLGSVTPDDVTRMMAKIDTDGDGNISFQE
FTEFASANPGLMKDVAKVF

>accession|CAA65341.1|Allergen allergen [*Malassezia sympodialis*]
MRYSTVLAALALLGTSAVSVLAALPDQIDVKVKNLTPEDTIYDRTRQVFYQSNLYKGRIE
VYNPKTQSHFNVIDGASSNGDGEQQMSGLSLLLTHDNSKRLFAVMKNAKSFNFADQSSHG
ASSFHSFNLPLSENSKPVWSVNFQVQDEFQKAGKRPFQVQSAQDRDGNSYVAFALGM
PAIARVSADGKTVSTFAWESGNGGQRPQYSGITFDPHSNKLIAFGGPRALTAFDVSKPYA
WPEPVKINGDFGTLQTEKIVTVPVGNESVLVGARAPYAI SFRSWDNWKSANIKKTKRSE
LQNSGFTAVADYYQSEQGLYAVSAFFDNGAHGGRSDYPLYKLDNSILNF

>accession|BAA07772.1|Putative allergenic protein [*Oryza sativa* (japonica
cultivar-group)]
RHEVKRQCVATTHPAAPGTEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVG
HPMAEVFPGCRRGDLERRRRSLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|BAA07773.1|Putative allergenic protein [*Oryza sativa* (japonica
cultivar-group)]
RVVKRQCVATRRTGGADEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHP
MAEVFPGCRRGDLERARATLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|BAA07774.1|Putative allergenic protein [*Oryza sativa* (japonica
cultivar-group)]
FGTRFRQRQCVGPRRTRRRRWTTQQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATD
VGHHPMAEVFPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|BAA12318.1|Allergen alpha-gliadin [*Triticum aestivum*]
VRVPVPLQNPSPQQQPQEQVPLVQQQQFLGQQQPPFPQQPYPQPQPFPSPQPYLQLQP
FPQPQLPYSQPQPFQPPQYPQPQPQYSQPQEPISQQQQQQQQQQQILQQILQQQLIPCM
DVVLQQHNIAHGRSQVLQQSTYQLLQELCCQHLWQIPEQSQCQAIQNVVHAIILHQQKQ
QQQPSSQVSFQQPLQQYPLGQGSFRPSQQNPQDQGSVQPQQLPQFEEIRNLALQTLPAMC
NVYIPPYCTIAPFGIFGTN

>accession|BAA09920.1|Putative prepro Der f 3 [*Dermatophagoides farinae*]
MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSSSHFCGGSILDEY
WILTAHCVNGQSAAKLSIRYNTLKHASGGEKIQVAEIIYQHENDSMTIDNDVALIKLKT
PMTLDQTNAKPVPLPAQGSQDVKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSCQGDGSGPVVDVATKQIVGIVSWGYGCAKRGYP
GVYTRVGNFVDWIESKRSQ

>accession|AAB36008.1|Putative mAb 2F9-reactive major allergen {N-
terminal} [*Parietaria officinalis*]
APAGGVVPIIMPPXXFF

>accession|AAB36009.1|Putative mAb 8C7-reactive major allergen {N-
terminal, band 1} [*Parietaria officinalis*]
APAGGVVVAAMPPLL

>accession|AAB36010.1|Putative mAb 8C7-reactive major allergen {N-
terminal, band 2} [*Parietaria officinalis*]
GPVGGVVHAHMMPLL

>accession|AAB36011.1|Putative mAb 3F8-reactive major allergen {N-terminal} [Parietaria officinalis]
EEXGGVVGALMPPLL

>accession|AAB36012.1|Putative mAb 8B6-reactive major allergen {N-terminal} [Parietaria officinalis]
GTTGTVVGALMPPLFVQKKEKEXPPSXXKG

>accession|AAB35977.1|Allergen allergen Der f 7 [Dermatophagoides pteronyssinus]
MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAAIEQSETIDPMKVPDHADKFER
HVGIVDFKGE LAMRNI EARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSDVLTAI FQD TVRKEMTKVLAPAFKRELEKN

>accession|CAA96534.1|Allergen major allergen Mal d 1 [Malus x domestica]
MGVFN YETEFTSVIPARL FNAFVLDADNLIPK IAPQAVKSAEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKENFVYKYSVIEGDAISETIEKISYETKLVASGSGSVIKSTSHY
HTKSDVEIKEEHVKAGKEKASHLFLKLIENYLLAHS DAYN

>accession|CAA96535.1|Allergen major allergen Mal d 1 [Malus x domestica]
MGVFN YETEFTSVIPAPRLFKAFILDGDNLIPK IAPQAIKSTEIIEGDGGVGTIKKVTFG
EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTTSH
YHAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHS DAYN

>accession|CAA96536.1|Allergen major allergen Mal d1 [Malus x domestica]
MGVFN YETEFTSVIPAPRLFKAFILDGDNLIPK IAPQAIKSTKIEGDGGVGTIKKVTFG
EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTTNSH
YHAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHS DAYN

>accession|CAA96537.1|Allergen major allergen Mal d1 [Malus x domestica]
MGVFN YETEFTSVIPAPRLFKAFILDGDNLIPK IAPQAIKSTEIIEGDGGVGTIKKVTFG
EGSQYGYVKQRVNGIDKDNFTYSYSMIEGDTLSDKLEKITYETKLIASPDGGSIIKTTSH
YRAKGDVEIKEEHVKAGKEKASGLFKLLEAYLLAHS DAYN

>accession|AAA99805.1|Putative Der f 3 mite allergen [Dermatophagoides farinae]
IVGGVKAKAGDCPYQISLQSSSHFCGGSILDEYWILTA AHC VNGQS AKKLSIRYNTLKHA
SGGEKIQVAEIIYQHENYDSMTIDNDVALIKLKT PMTLDQTNAPVPLPPQGS DVKVGDKI
RVSGWGYLQEGSYSLPSELQRVDIDVVSREQCDQLYSKAGADVSENMICGGDVANGGVDS
CQGDSGGPVVDIATKQIVGIVSWGYG CARKGYPGVYTRVGNFVDWIESKRSQ

>accession|CAA96546.1|Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YETEFTSVIPARL FNAFVLDADNLIPK IAPQAVKSAEILEGDGGVGTIKKINFG
EGSPFKYVKERVDEVD RVNFKYSFVIEGGAVGDALEKVCNEIKIVAAPDGG SILKISNK
FHTKGDHEINAEQIKIEKEKAEGLLKAVESYHLAHS DAYN

>accession|CAA96539.1|Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YETEFTSVIPARL FNAFVLDADNLIPK IAPQAVKSAEILEGDGGVGTIKKINFG
EGIPFKYVKDRVDEVDHANFKYSYSVIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKA EQIKASKEMGETLLRAVERYLLAHS DAYN

>accession|CAA96540.1|Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YETEFTSVIPARL FNAFVLDADNLIPK IAPQAVKSAEILEGDGGVGTIKKINFG

EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKLVATPDGGSILKISNK
YHTKGDHEMKAHEHMKAIKEKAEALLRAVESYLLAHS DAYN

>accession|CAA96541.1|Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YET EAT SVI PAAR LFKAF I LDG DNL FPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKA EQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA96542.1|Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YET ETT SVI PAAR LFKAF I LDG DNL I PKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYAYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAHEHMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|CAA96543.1|Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YET ETT SVI PAAR LFKAF I LDG DNL I PKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGSILKISNK
YHTKGDHEMKAHEHMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|CAA96544.1|Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YET EAT SVI PAAR LFKAS I LDG DNL FPKVAPQAISSVENIEGNGGPGTIKKISFP
EGSPFKYVKERVDEVD RVNFKYSFSVIEGGAVGDALEKVCNEIKIVAAPDGG SILKISNK
FHTKGDHEINA EQIKIEKEKAVGLLKAVESYLLAHS DAYN

>accession|CAA96547.1|Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YET ETT SVI PAAR LFKAF I LDG DNL FPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVAHKNFKYSYSVIEGGPIGDTLEKISNEIKIVATPDGRSILKISNK
YHTKGDHEVKA EQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA96548.1|Allergen major allergen Cor a 1 [Corylus avellana]
MGVFN YET EST SVI PAAR LFKAF I LDG DNL I PKVAPQAVSSVENVEGNGGPGTIKKITFS
EGSPFKYVKERVEEVDHTNFKYSYTVIEGGPVGDKVEKICNEIKIVAAPDGG SILKISNK
YHTKGDHEVDAEHIKGGKEKVEGLFRAVEAYLLAHS DAYN

>accession|CAA96549.1|Allergen major allergen Cor a 1 [Corylus avellana]
MGVFN YET ETT SVI PPAR LFKRFVLDSDNL I PKVAPKAIKSIEIIEGNGGPGTIKKICFD
EGSPFN YIKQKVEEIDQANFSYRYSVIEGDALSDKLEKINYEIKIVASPHGGSILKSISK
YHTIGDHELKDEQIKAGKEKASGLFKAVEGYLLAHS DAYN

>accession|CAA66403.1|Allergen parvalbumin beta [Salmo salar]
MACAHLCKEADIKTALEACKAADTFSFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLF LQNFCPKAREL TDAETKAF LKAGDADGDMIGIDEFAVLVKQ

>accession|AAB01092.1|Allergen pathogenesis-related protein [Daucus
carota]
LIFLLILSNNILNIMGAQSHSLEITSSVSAEKIFXXIVLDVDTVIPKAAPGAYKSVDVKG
DGGAGTVRIITLPEGSPITSM TVRTDAVNKEALTYDSTVIDGDILLEFIESIETHMVVVP
TADGGSITKT TAIFHTKGD AVVPEENIKFADAQNTALFKAIEAYLIAN

>accession|AAB36117.1|Putative Sol i 1-antigen {N-terminal} [Solenopsis
invicta]
GAASSNTYDIGQLMAKYTV DLMNKNLGNQQSCQDINASLPVVFITHGFTSSAQVSTFK

>accession|AAB36119.1|Putative Sol i 1-antigen {N-terminal} [Solenopsis
invicta]

WKIPLNNIQYVGHSLGSHVSGFAAK

>accession|AAB36120.1|Putative Sol i l=antigen {N-terminal} [Solenopsis invicta]
NDNTFEGEYHAFPCARNLFKGRQQE

>accession|AAB36121.1|Putative Sol i l=antigen {N-terminal} [Solenopsis invicta]
SQPACSWYDVPCSHSEXSVYXTGVPS

>accession|P49370.1|Allergen Hyaluronoglucosaminidase (Hyaluronidase) (Allergen Ves v 2) (Ves v II) [Vespula vulgaris]
SERPKRVFNIYWNVPFMCHQYDLYFDEVTNFNKRNKSKDDFQGDKIAIFYDPGEFPALL
SLKDGKYKRNNGVPEGNITIHQKFIEENLDKIYPNRNFSGIGVIDFERWRPIFRQNWG
NMKIHKNFSIDLVRNEHPTWNKKMIELEASKRFEKYARFFMEETLKLAKKTRKQADWGY
GYPYCFNMSPNNLVPECDVTAMHENDKMSWLFNNQNVLLPSVYVRQELTPDQRIGLVQGR
VKEAVRISNNLKHSPKVLSYWWYVYQDETNTFLTETDVKKTFQEIVINGGDGIIIWGSSS
DVNSLSKCKRLQDYLLTVLGP IAINVTEAVN

>accession|P49372.1|Allergen Major allergen Api g 1 (Api g 1.0101) (Api g I) [Apium graveolens]
MGVQTHVLELTSSVSAEKIFQGFVIDVDTVLPKAAAPGAYKSVEIKGDGGPGTLKIITLPD
GGPITMTLRIDGVNKEALTFDYSVIDGDILLGFIESIENHVVLVPTADGGSICKTTAIF
HTKGDVAVPEENIKYANEQNTALFKALEAYLIAN

>accession|P49148.1|Putative 60S acidic ribosomal protein P1 (Allergen Alt a 12) (Alt a XII) [Alternaria alternata]
MSTSELATSYAALILADDGVDITADKLQSLIKAAKIEEVEPIWTTLFAKALEGKDVKDLL
LNVGSGGGAAPLPEALLLRWRAADAAPAAEEKKEEKEEESDEDMGFGLFD

>accession|P02789.2|Allergen Ovotransferrin precursor (Conalbumin) (Allergen Gal d 3) (Gal d III) (Serum transferrin) [Gallus gallus]
MKLILCTVLSLGLIAAVCF AAPPKSVIRWCTISSPEEKCCNNLRDLTQQERISLTCVQKAT
YLDCIKAIANNEADAI SLDGGAFAEAGLAPYKLPKPIAAEVYEHTEGSTTSYYAVAVVKKG
TEFTVNDLQKTSCHTGLGRSAGWNIPIGTLLHRGAI EWEGIESGSVEQAVAKFFSASCV
PGATIEQKLCRQCKGDPKTKCARNAPYSYSGAFHCLKDGGDVA FVKHTTVNENAPDQK
DEYELLCLDGRQPVDNYKTCNWARVAHAVVARDDNKVEDIWSFLSKAQSDFGVDTKSD
FHLFGPPGKDPVLKDLLFKDSAIMLKRVP SLMDSQLYLGFEYSAIQSMRKDQLTPSPR
ENRIQWCAVGKDEKSKDRWSVVSNGDVECTVVDETDCI IKIMKGEADAVALDGGGLVYT
AGVCGLVPM AERYDDESQC SKTDERPAS YFAVAVARKDSNVNWN NLKGKKSCHTAVGRT
AGWVIPMGLIHNRTGTCNFDEYFSEGCAPGSPNSRLCQLCQSGGIPPEKCVASSHEKY
FGYT GALRCLVEKGDVAFIQHSTVEENTGGKNKADWAKNLQMDDFELLCTDGRRANVMDY
RECNLAEVP THAVVVRPEKANKIRDLLERQEKRFVNGSEKSKFMMFESQNKDLLFKDLT
KCLFKVREGTTYKEFLGDKFYTVISSLKT CNPSDILQMCSFLEK

>accession|P49274.1|Putative Alpha-amylase (Allergen Der p 4) (Der p IV) [Dermatophagoides pteronyssinus]
KYXNP HFIGXRSVITXLME

>accession|P49277.1|Putative Mite allergen Der p 6 (Der p VI) (DP5) [Dermatophagoides pteronyssinus]
AIGXQPAAEAEAPFQISLMK

>accession|BAA04557.1|Allergen Mag44 [Dermatophagoides farinae]

FFFVAAKQQQPSTKMEAIKKKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRA
LQKKIQIENELDQVQEQLSAANTKLEEKEKALQTAEGDVAALNRRRIQLIEEDLERSEER
LKIATAKLEEASQSADESERMRKMLEHRSITDEERMDGLENQLKEARMAEDADRKYDEV
ARKLAMVEADLERAEERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQQREEAYEQQI
RIMTAKLKEAEARAFAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDQTFaelTGY

>accession|CAA64868.1|Allergen chitinase Ib [Castanea sativa]
MKLFSLLLFLAFLLLGTSAEQCGRQAGGAACANNLCCSQFGWCGNTAEYCGAGCQSQCSSP
TTTTSSPTASSGGGGDVGSLISASLFDQMLKYRNDPRCKSNGFYTYNAFIAAARSFNFGF
TTGDVTTTRKRELAFLAQTSHETTGGWATAPDGPYAWGYCFVMENNKQTYCTSKSWPCVF
GKQYYGRGPIQLTHNYNYGQAGKAIGADLINNPDLVATNPTISFKTAIWFWMTPQANKPS
SHDVIIGNWRPSAADTSAGRVPSYGVITNIINGGLECGHGSDDRANRIGFYKRYCDTLG
VSYGNLDCYNQKPPFA

>accession|I53806|Allergen major allergen OLE16 - common olive (fragment)
[Olea europaea]
SQFHIQGQVYCDTCRARFITEELSEFIPGAGVRLQCRDGEKGSITFTEVGYTRAEGLYSML
IERDHKNEFCEITLASSSRKDCDEIPVEGWVKPSLKFILNTVNGTTRTINPLGFFKKEVL
PKCPQVFNKLGMYPPNM

>accession|E53806|Allergen major allergen OLE17 - common olive (fragment)
[Olea europaea]
QFHIQGQVYCDTCHARFITEELSEFIPGASVRLQCREKENGDITFTEIGYTRAEGLYSMLV
ERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALP
KCAQVYNKLGMYPPNM

>accession|F53806|Allergen major allergen OLE19 - common olive (fragment)
[Olea europaea]
QFHIQGQVYCDTCRAGFINELSEFIPGASVRLQCREKKNGDITFTEVGYTRAEGLYSMLV
ERDHKNEFCEITLISSGRKDCNEIPIEGWAKPSLKFILNTVNGTTRTINPLGFYKKEALP
KCAQVYNKLGMYPPNM

>accession|C53806|Allergen major allergen OLE1c - common olive (fragment)
[Olea europaea]
EDVPQPPISQFYVQGVYCDTCRTRFITEFSEFIPGAGVRLQCKDGENGKITFTEVGYTR
AEGLYSMLIERDHKNEFCEITLLSSSRKDCDEIPTEGWVKPSVKFILNTVNGTTRTINPL
GFFKKEALPKCPQVFNKLGMYPPNM

>accession|A38968|Allergen major allergen OLE20 - common olive (fragment)
[Olea europaea]
QFHIQGQVYCDTCRARFITEELSEFIPGAGVRLQCRDGEKGSITFTEVGYTRAEGLYSMLI
ERDHKNEFCEITLASSSRKDCDEIPVEGWVKPSLKFILNTVNGTTRTINPLGFFKKEVLP
KCAPQVFNKLGMYPPNM

>accession|G53806|Allergen major allergen OLE26 - common olive (fragment)
[Olea europaea]
QFHIQGQVYCDTCRAGFITEELSEFIPGASVRLQCKEKKNGDITFTEVGYTRAEGLYSMLV
ERDHKNEFCEITLISSGSKDCNEIPTEGWGKPSLKFILNTVNGTTRTVNPLGFYKKEALP
KCAQVYNKLGMYPPNM

>accession|B53806|Allergen major allergen OLE5c - common olive [Olea
europaea]
EDVPQPPVVSQFHIQGQVYCDTCRARFITEELSEFIPGASVRLQCKDGENGSITFTEVGYTR
AEGLYSMLIERDHKDEFCEITLISSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPL

GFFKKEALPKCPQVFNKLGMYPPNM

>accession|H53806|Allergen major allergen OLE6 - common olive (fragment)
[Olea europaea]
QFHIQGVYCDTCRARFITEELSEFIPGAGVRLECKDGGKGSITFTEVGYTRAEGLYSMLI
ERDHKNEFCEITLASSSRKDCDEIPVEGWVKPSLKFKLNTVNGTTRTINPLGFFKKEVLP
KCPQVFNKLGMYPPNM

>accession|CAA44343.1|Allergen fel d I chain 1 precursor with leader B
[Felis catus]
VRRSPSTLPYCCGHSRDCEICPAVKRDVDLFLTGTPDEYVEQVAQYNALPVVLENARILK
NCVDAKMTEEDKENALSVLDKIYTSPLC

>accession|CAA44344.1|Allergen fel d I chain 1 precursor with leader A
[Felis catus]
EGGLCSRASLGCLALDLGWKDCEICPAVKRDVDLFLTGTPDEYVEQVAQYNALPVVLENA
RILKNCVDAKMTEEDKENALSVLDKIYTSPLC

>accession|AAC80579.1|Putative allergen [Blomia tropicalis]
MPIEGKYKLEKSDNFDKFLDELGVGFMVKTAAKTLKPTLEVDVQGDYVFRSLSTFKNTE
IKFKLGEEFEEDRADGKRKRVKTVVNKEGDNKFIQTQYGDKEVKIVRDFQGDVVVTASVGD
VTSVRTYKRI

>accession|BAA07710.1|Putative allergenic protein [Oryza sativa (japonica
cultivar-group)]
MASNKVVFSAALLLIIVSVLAATGPMADHHKDQVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVATAHPAARGNEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHMMAE
VFPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|BAA07711.1|Putative allergenic protein [Oryza sativa (japonica
cultivar-group)]
GTRLLLIIVSVLAATRRMADHHKDQVVYSLGERCQPGMGYPMYSLPRCRAVVKRQCVGHG
APGGAVDEQLRQDCCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHMMAEVFPGCRR
GDLERAAASLPAFCNVDIPNGTGGVCYWLGYTPRTPRTGH

>accession|BAA07712.1|Putative allergenic protein [Oryza sativa (japonica
cultivar-group)]
MASNKVVIPALLVVVSVLAATTTMADHHQEQQVYTPGQLCQPGIGYPTYPLPRCRAVVK
RQCVAPGTLDEQVRRGCCRQLAGIDSSWCRCDALNHMLRRIYREERAADAGHPMAEVFRG
CRRGDIERAAASLPAFCNVDIPNGVGGVCYWLPGTGY

>accession|BAA07713.1|Putative allergenic protein [Oryza sativa (japonica
cultivar-group)]
MASNKVVFVSVLLAVVSVLAATATMAEYHHQDQVVYTPAPLPCQPGMGYPMYPLPRCRALV
KRQCVGRGTAAAEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHMSEV
FRGCRRGDLERAAASLPAFCNVDIPNGGGVCYWLARSY

>accession|CAA35188.1|Allergen trypsin inhibitor cme precursor [Hordeum
vulgare]
MAFKYQLLLSAAVMLAILVATATSGDSCAPGDALPHNPLRACRTYVVSQICHQGPRLLT
SDMKRRCCDELSAIPAYCRCEALRIIMQGVVTWQGAFFEGAYFKDSPNCPREERQTSYAANL
VTPQECNLGTIHGSAYCPELQPAY

>accession|AAB36316.1|Putative Myr p II [Myrmecia pilosula]

MKLSCLLLTLAIIFVLTIVHAPNVEAKALADPESDAVGFADAVGEADPIDWKKVDWKKVS
KKTCKVMLKACKFLG

>accession|AAB35897.1|Putative 31 kda major allergen/disease resistance
protein homolog {N-terminal} [Malus x domestica]
AKITFTNXPNTVWPGILTGFQKPO

>accession|AAC49447.1|Allergen latex allergen [Hevea brasiliensis]
MASVEVESAAATLPKNETPEVTKAETKTEEPAAPPASEQETADATPEKEEPTAAPAEPE
APAPETEKAEVEKIEKTEEPAPEADQTTPEEKPAEPEPVAEEEEPKHETKETETEAPAAP
AEGEKPAEEKPIEAAETATTEVPVEKTEE

>accession|AAC02632.1|Allergen cherry-allergen PRUA1 [Prunus avium]
MGVFTYESEFTSEIPPPRLFKAFVLDADNLVPKIAPQAIKHSEILEGDGGPGTIKKITFG
EGSQYGYVHKHIDSIDKENYSYSYTLIEGDALGDTLEKISYETKLVASPSGGSIIKSTSH
YHTKGNVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>accession|BAA08246.1|Putative Chaol [Chamaecyparis obtusa]
MASCTLLAVLVFLCAIVSCFSDNPIDSCWRGDANWDQNRMKLADCAVGFSSAMGGKGGGA
FYTVTSSDDDPVNPAPGTLRYGATRERSLWIIIFSKNLNIKLNMPLYIAGNKTIDGRGAEV
HIGNGGPCFLMRTVSHVILHGLNIHGCVTSVSGNVLISEASGVVPVHAQDGDITMRNVT
DVWIDHNSLSDSSDGLVDVTLASTGVTISNNHFFNHHKVMMLLGHSDIYSDDKSMKVTVAF
NQFGPNAGQRMPRARYGLIHVANNNYDPWSIYAIGSSNPTILSEGNSFTAPNDSKKEV
TRRVGCEPSTCANWVWRSTQDSFNNGAYFVSSGKNEGTNIYNNNEAFKVENGSAAPQLT
KNAGVLTCILSKPCS

>accession|AAB09632.1|Allergen allergen [Periplaneta americana]
DIGDHYDIEANIGHYKYPHVKNFISYYKKGLLRGEPFSVYYEKHREQAIKLFELFFAA
NDYDTFYKTACWARDRVNEGMFMALYALVAAFHREDTKDLVLPPEVNPYLFVEDDVIQQ
AYKYWTKESGTDKHVEHVIPVNFRTARSQEDLVAYFREDVDLNAFNMYFRYIYPSWFNTTL
YGKSFDRRGEQFYTYHQIYARYFLERLSNSLDPVKPFQYKPLKTGYNPHLRYHNGEEM
PARPSNMYPTNFDLFFVSDIKNYERRVEKAIDFGYAFDEHRTPYSLYHDQHGM DYLGQMI
EGTRNSPHQYFYGSVFFHYRLLVGHVVDPYHKNGLAPSALEHPQTALRDPAFYQLWKRID
HIVQYKYNRLPRYTYDELSFPGVKIENVVGVKLYTYFEHFEHSLGNAMYLGKLEDYMKAS
IRARHYRLNHPFTYNIIEVSSDKAQDVYVRIFLGPKYDSLGHCELDERRHYFVEMDRFV
HKVEAGKTVIERKSHDSSIISDSHDSYRNLFFKKVSDALQEKDQYYIDKSHKYCGYPENLL
LPKGGKGGQTFYFVIVTPYVKQDEHDFEPYHYKAFSYCGVGHGRKYPDDKPLGFPFDRK
IHDYDFYTPNMYFKDVVIFHKKYDEVHVDTH

>accession|CAA65122.1|Allergen P8 protein [Parietaria judaica]
MRTVSMAALVVIAAALAWTSSAELASAPAPGEGPCGKVVHHIMPCLKFVKGEEKEPSKSC
CSGTTKLSSEEVKTTEQKREACKCIVAATKGISGIKNELVAEVPKCGITTTLPITADFD
CSKIESTIFRGYY

>accession|CAA65123.1|Allergen P9 protein [Parietaria judaica]
MRTVSAPSAVALVVIAAGLAWTSLASVAPPAPAPGSEETCGTVVRALMPCLPFVQKKEK
EPSKGGCCSGAKRLDGETKTGLQRVHACECIQTAMKTYSDIDGKLVSEVPKHCIVDSKLP
PIDVNMDCCKTLGVVPRQPQLPVSLRHGPVTGSPDPAHKARLERPQIRVPPPAPPEKA

>accession|CAB02155.1|Allergen pollen allergen Bet v 1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFKVPAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAQVKASKEMGETLLRAVESYLLAHSDAYN

>accession|CAB02156.1|Allergen pollen allergen Bet v 1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02157.1|Allergen pollen allergen Bet v 1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02158.1|Allergen pollen allergen Bet v 1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
GGLPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02159.1|Allergen pollen allergen Bet v 1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGLPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02160.1|Allergen pollen allergen Bet v 1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAB02161.1|Allergen pollen allergen Bet v 1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLFKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDILEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMRETTLLRAVESYLLAHS DAYN

>accession|BAA04558.1|Putative Mag3 [Dermatophagoides farinae]
VTALELLLKGETEDKTRRYVAELTAVGSPSNKQAKAQIEVTKGEEYKITLKSPEHEFNTE
FTIHADKNNLKMMDFPNVFQADLTGTFQHDKENNVRKNQLNLQYKFAGDEKPHTVDYEN
EFSFNLRSSKDKNSGVDRYAKYMSSHFPILNHKVNIQFKYRPFKVNELNLEGEFGRELQ
HKFQLMRNSQIEVEEVRPFKMHGNSDIKLMANDLIDYDLKSEFKYESNKGTPIELQYKI
SGKDRSKRAADLGAEDVEGVIDYKNNGSPIDSKMHAHLKMKGNNGYDSELKQTQPQQYE
GKITLSKNDKKIFINHKSEMTKPTNTFHLKTDADVSYSDSMDMKKHYQME

>accession|CAB02206.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEKMKGAKEMAELLLRAVESYLLAHTDEYN

>accession|CAB02207.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDNLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEEMKGAKEMAELLLRAVESYLLAHTDEYN

>accession|CAB02208.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEKMKGAKEMAELLLRAVESYLLAHTDEYN

>accession|CAB02209.1|Allergen pollen allergen Car b 1 [Carpinus betulus]

MGVFNIEAETPSVIPAARLFKSYVLDLDFDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEEMKGAKEMAELLRRAVESYLLAHTAEYN

>accession|CAB02213.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVIPAARLFKSYVLDLDFDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKFSYTVIEGDVLGDKLEKVSLELKIVAAPGGGSILKISGK
FHAKGDHEVNAEEMKGAKEMAELLRRAVESYLLAHTAEYN

>accession|CAB02215.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETPSVMPAARLFKSYVLDLDFDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKFSYTVIEGDVLGDKLEKVSLELTIVAAPGGGSILKISGK
FHAKGDHEVNAEEMKGAKEMAELLRRAVESYLLAHTAEYN

>accession|CAB02216.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETTSVIPAARLFKAFILDGNKLIPKVSPQAVSSVENVEGNGGPGTIKKITFS
EGSPVKYVKERVEEVDHTNFKFSYTVIEGGFVGDKVEKICNEIKIVAAPDGGGSILKITSK
YHTKGDHEVPAEHIKGGKERVEGLLKPVEAYLLAHTAEYNN

>accession|CAB02217.1|Allergen pollen allergen Car b 1 [Carpinus betulus]
MGVFNIEAETTSVIPAARLFKAFILDGNLIPKVAPQAVSSVENVEGNGGPGTIKKITFS
EGSPVKYVKERVEEVDHTNFKFSYTVIEGGPVGDKVEKICNEIKIVAAPDGGGSILKITSK
YHTKGDHEVPAEHIKGGKERVEGLLKPVEAYLLAHTAEYNN

>accession|AAB63099.1|Allergen cysteine proteinase inhibitor 10
precursor, partial [Solanum tuberosum]
TCHDDNLVLPVYDQDGNPLRIGERYIIKNPLLGGAGAVYLDNIGNLQCPNAVLQHMSIP
QFLGKGTVPVVFIRKSESDYGDVVRMLTAVYIKFFVKTTKLCVDETVWVKVNNQLVVTGGN
VGNENDIFKIKKTDLVIRGMKNVYKLLHCPHLECKNIGSNFKNGYPRLVTVNDEKDFIP
FVFIKA

>accession|AAC48691.1|Putative Equ c1 [Equus caballus]
MKLLLLLCLGLILVCAQQEENSVDVAIRNFDISKISGEWYSIFLASDVKEKIEENGSMRVFV
DVIRALDNSSLYAEYQTKVNGECTEFPMVFDKTEEDGVYSLNYDGYNVFRISEFENDEHI
ILYLVNFDKDRPFQLFEFYAREPDVSPEIKKEEFVKIVQKRGIVKENIIDLTKIDRCFQLR
GNGVAQA

>accession|AAB62731.1|Allergen allergen [Periplaneta americana]
LNAFNMYFRYIYPTWFNTTLYGKTFDRRGEQFYTYHQIYARYFLERLSNSLDPVKPFQY
SKPLKTGYNPHLRYQNGEEMPARPSNMYPTNIDLIFYVSDIKNYESRVEKAIDFDAFDEHR
TPYSLYHDQHGMDYLGQMIEGTSSNSPYQYFYGSIFHFYRLLVGHVVDPYHKNGLAPSALE
HHQTALRDPAFYQLWKRIDHIVQKYKNRLLPRYTYDELSFPGVKIENVDVGKLYTYFEHFE
HSLGNAMYLGKLEDVLKANIRARHYRLNHPFTYNI EVSSDKAQDVYVRIFLGPKYDSL
GHECELDERRHYFVEMDRFVHKVEAGKTVIERKSHDSSIISDSHDSYRNLFKKVSDALEGK
DQYYIDNSHKYCGYPENLLLPGKGGQTFTFYVIVTPYVKQDEHDLESYHYKAFTYCGV
GHGRKYPDDKPLGFPDRKIHIDYDFYTPNMYFKDVVIFHKKYDEVHNETN

>accession|AAB63595.1|Allergen allergen [Periplaneta americana]
EMPARPSNMYPTNIDLIFYVSDIKNYESRVEKAIDFGYAFDEHRTPYSLYHDQHGMDYLGQ
MIEGTSSNSPYQYFYGSIFHFYRLLVGHVVDPYHKNGLAPSALEHHQTALRDPAFYQLWKR
IDHIVQKYKNRLLPRYTYDELSFPGVKIENVDVGKLYTYFEHFEHSLGNAMYIGKLEDLLK
ANIRASHYRLNHPFTYNI EVSSDKAQDVYVRIFLGPKYDSL GHECELDERRHYFVEMDR
FVHKVEAGKTVIERKSHDSSIISDSHDSYRNLYKKVADALEEKDQYYIDKSHKYCNPEN
LLLPGKGGQTFTFYVIVTPYVKQEQHDFEPYHYKAFSYCGVGHGRKYPDDKPLGFPDFD

RKIHDFYFYPNMYFKDVVIFHKKYDEVHEVTH

>accession|2118249A|Putative allergen Lep d 1.01 [Lepidoglyphus destructor]

MMKFIALFALVAVASAGKMTFKDCGHGEVTELDITGCSGDTCVIHRGKMTLEAKFAANQ
DTAKVTIKVLAKVAGTTIQVPGLETGCKFIKCPVKKGEALDFIYSGTIPAITPKVKADV
TAEIIGDHGVMACGTVHGVQE

>accession|2118249B|Putative allergen Lep d 1.02 [Lepidoglyphus destructor]

MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRGQKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLETGCKVLKCPVKKGEALDFNYGMTIPAITPKIKADV
TAEVGDHGMACGTVHGVQE

>accession|2118271A|Allergen allergen PhI p I [Phleum pratense]

MASSSVLLVVALFAVFLGSAHGIPKVPVPGPNITATYGDKWLDAKSTWYGKPTAAGPKDN
GGACGYKDVDPKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNE
EPIAAYHFDLSGIAFGSMKKGDEQKLSRAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKFSGDGDVVAVDIKEKGDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEGG
TKARAKDVIPEGWKADTAYESK

>accession|2206305A|Putative major allergen Myr p II [Myrmecia pilosula]

MKLSCLLLTLAIFVLTIVHAPNVEAKALADPESDAVGFADAVGGADPIDWKKVDWKKVS
KKTCKVMLKACKFLG

>accession|2209273A|Putative Zm13 [Zea mays]

MASVPAPATTTAAVILCLCVLSCAAADDPNLPDYVIQGRVYCDTCRAGFVTNVTEYIAG
AKVRLECKHFGTGKLERAIIDGVTDATGTYTIELKDSHEEDICQVVLVASPRKDCDEVQAL
RDRAGVLLTRNVGISDSLRPANPLGYFKDVPLPVCAALLKQLDSDDDDDDQ

>accession|1ESF_B|Allergen Chain B, Staphylococcal Enterotoxin A

[Staphylococcus aureus]

SEKSEEINEKDLRKKSELQGTALGNLQIYYYNEKAKTENKESHQFLQHTILFKGFFTD
HSWYNDLLVDFDSKDIVDKYKGGKVDLYGAYYGYQCAGGTPNKTACMYGGVTLHDNNRLT
EEKKVPINLWLDGKQNTVPLETVKTNKKNVTVQELDLQARRYLQEKYNLYNSDVFDFGKVQ
RGLIVFHTSTEPSVNYDLFGAQQQYSNTLLRIYRDNKTINSENMHIDIYLYTS

>accession|AAB60779.1|Allergen manganese superoxide dismutase
[Aspergillus fumigatus]

GTSPIQTPINTMSQQYTLPLPYDALQPYISQQIMELHKKHHQTYVNGLNAALEAQK
KAAEATDVPKLVSVQQAIFNGGGHINHSFLWKNLAPEKSGGKIDQAPVLKAAIEQRWG
SFDKFKDAFNNTLLGIQGSWGWLVTDGPKGKLDITTTTHDQDPVTGAAPVFGVDMWEHAY
YLQYLNDKASYAKGIWNVINWAEAEENRYIAGDKGGHPFMKL

>accession|BAA13604.1|Allergen cr16 [Daucus carota]

MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVDVKDGGAGTVRIITLPE
GSPITSMTVRTDAVNKEALTYDSTVIDGDILLEFIESIETHMVVPTADGGSITKTTAIF
HTKGDVAVPEENIKFADAQNTALFKAIEAYLIAN

>accession|CAB05371.1|Allergen major allergen Phl p 5 [Phleum pratense]

AVPRRGPRGGPGRSYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGFKAAVAAAAA
VPAGDKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVAVGATPEAKFDSFVASLT
EALRVIAGALEVHAVKPVTEEPGMKIPAGELQIIDKIDAAFVAATAAATAPADDKFTV
FEAAFNKAIKESTGGAYDITYKCIPLSLEAAVKQAYAATVAAAPQVKYAVFEAALTKAITAM

SEVQKVSQPATGAATVAAGAATTATGAASGAATVAAGGYKV

>accession|CAB05372.1|Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQKLIKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAESSKALTSKLEAAYKLAYKTSEGATPEAKYDAYVATL
SEALRIIAGTLEVHAVKPAEEVKVIPAGELQFIEKVDSALKVAATAANAAAANDKFTVF
EAAFNHAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAPATEATATATAAVGAATGAATAATGGYKV

>accession|AAB37403.1|Allergen gamma-70 secalin isoform S10-12=coeliac
immunoreactive protein/prolamin {N-terminal} [Secale cereale]
NMQVNPSGQVQWPQQQPPFPQQQ

>accession|AAB37406.1|Allergen gamma-35 secalin isoform P13-14=coeliac
immunoreactive protein/prolamin {N-terminal} [Secale cereale]
NMQVGPSGQVSWPQQQPLPQQQXVYQXP

>accession|P02222.2|Putative Globin CTT-II beta precursor [Chironomus
thummi thummi]
MKFLVLALCIAAAVAAPLSADEASLVRGWSAQVKHSEVDILYYIFKANPDIQARFPQFAG
KDLETTLKGTGFATHAGRIVGFVSEIVALMGNSANMPAMETLIKDMAANHKARGIPKAQF
NEFRASLVSYLQSKVSWNDSLGAAWTQGLDNVFNMMFSYL

>accession|P02223.2|Putative Globin CTT-IX precursor [Chironomus thummi
thummi]
MKFFIVLALCIVGAIADPVSSDQANAIASWAGVKHNEVDILAAVFS DHPDIQARFPQFA
GKDLASIKDTGAFATHAGRIVGFISEIVALVGNESNAPAMATLINELSTSHHNRGITKGQ
FNEFRSSLVSYLSSHASWNDATADAWTHGLDNIFGMIFAHL

>accession|P80198.1|Allergen RecName: Full=Gamma-hordein-3 [Hordeum
vulgare]
ITTTTMMQFNPSGLELERPQQLFPPQWQPLPQQPPFLQQEPEQPYPQQQPLPQQQPPFPQQPQ
LPHQHQPFPQQPLPQQQFPQQMPLPQQQFPQQMPLPQQQFPQQKPFQYQQPLTQQPY
PQQQPLAQQQPSIEEQHQLNLCKEFLQCTLDKQVPLLSVISFLRPHISQQNSCQLKR
QQCCQQLANINEQSRCPAIQTIVHAIVMQQQVQQQVGHGFVQSLLQQLGQGMPIQLQQQP
GQAFVLPQQQAQFKVVGSLVIQTLPMLCNVHVPYCSPPFGSMATGSGGQ

>accession|P53357.1|Allergen Phospholipase A1 2 (Allergen Dol m 1.02)
(Dol m I) [Dolichovespula maculata]
GILPECKLVPEEISFVLSTRENDRGVYTLQKLKNGKMFKNSDLSSKVPFLIHGFISSA
TNKNYADMTRALLDKDDIMVISIDWRD GACSNEFALLKFIGYPKAVENTRAVGKYIADFS
KILIQKYKVLLENIRLIGHSLGAQIAGFAGKEFQRFKLGKYPEIIGLDPAGPSFKKKDCP
ERICETDAHYVQILHTSSNLGTERTLGTVDVDFYINDGSNQP GCTYIIGETCSHTRAVKYL
ECIRRECLIGVPQSKNPQPVSKCTRNECVVGLNAKEYPKKGSFYVPVEAKAPFCNNNG
KII

>accession|P51528.1|Allergen Phospholipase A1 (Allergen Ves m 1) (Ves m
I) [Vespula maculifrons]
GPKCFNDSDTVSIIEIETRENRRNDLYTLQTLQNHPEFKKKTITRPVVFITHGFTSSASEK
NFINLAKALVDKDNMVISIDWQTA ACTNEYPLKYAYYPTAASNTRLVGQYIATITQKL
VKDYKISMANIRLIGHSLGAHVSGFAGKRVQELKLGKYEIIGLDPARPSFDSNHCSERL
CETDAEYVQIIHTSNYLGTTEKILGTVDVDFYMNGKNNP GCGRFFSEVCSHTRAVIYMAECI
KHECCLIGIPRSKSSQPI SRCTKQECVCVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII

>accession|AAB41308.1|Putative albumin seed storage protein precursor
[Juglans regia]
AALLVALLFVANAAAFRTTITTTMEIDEDIDNPRRRGEGCREQIQRQQNLNHCQYYLRQOS
RSGGYDEDNQHQHFRQCCQQLSQMDEQCQCEGLRQVVRQQQQQGLRGEEMEEMVQSARD
LPNECGISSQRCEIRRSWF

>accession|AAB42069.1|Allergen non specific lipid transfer protein
[Solanum lycopersicum]
MEMFGKIACFVVFCMVVAPHAESLSCGEVTSGLAPCLPYLEGRGPLGGCCGGVKGLLGA
AKTPEDRKTACTCLKSAANSIKGIDTGKAAGLPGVCGVNIPIYKISPSTDCSTVQ

>accession|AAB42200.1|Putative Dac gIII allergen [Dactylis glomerata]
VKVTFKVEKGSDPKKLVLDIKYTRPGDTLAEVELRQHGSEEWEP LTKKGNLWEVKSSKPL
TGPFNFRFMSKGGMRNVFDEVIPTAFKIGTTYTPEE

>accession|AAB46819.1|Putative Par o 1a=acidic allergen isoform {N-
terminal} [Parietaria officinalis]
ATGKVVQDIMPPLLFVVQGEKPKSS

>accession|AAB46820.1|Putative Par o 1b=basic allergen isoform {N-
terminal} [Parietaria officinalis]
GPXGKVVHIIIMPPLKFVKGESEEP

>accession|AAB47552.1|Allergen major allergen Alt a 1 subunit [Alternaria
alternata]
MQFTTIIASLFAAAGLAAAAPLESRQDTASCPVTTEGDYVWKISEFYGRKPEGTYYNLSLGF
NIKATNGGTLDFTCSAQADKLEDHKWYSCGENSFMDFSFDSDRSGLLLKQKVSDDITYVA
TATLPNYCRAGNGPKDFVCQGVADAYITLVTLPKSS

>accession|AAB48041.1|Putative ribosomal P2 phosphoprotein [Alternaria
alternata]
MKHLAAYLLLGLGGNTSPSAADV KAVLESVGI EADSDRLDKLISELEGKDINELIASGPE
KLASVPSGGAGGAAAASGGAAAAGGSAEAEAAPEAAKEEEEKEESDEDMGFGLFD

>accession|CAA62634.1|Putative calcium-binding pollen allergen [Cynodon
dactylon]
KTMADTGDMEHIFKRFD TNGDGKISLAELTDALRTL GSTSADEVQRMMAEIDTDGDGFID
FDEFISFCNANPGLMKDVAKVF

>accession|CAA72273.1|Putative serpin [Triticum aestivum]
MATTLATDVRLSIAHQTRFALRLASTISSNPKSAASNAAFSPVSLHSALSLLAAGAGSAT
RDQLVATLGTGEVEGGHALAEQVVQFVLADASSAGGPRVAFANGVFVDASLLLKPSFQEL
AVCKYKAETQSVDFQTKAAEVTTQVNSWVEKVTSGRIKNILPSGSVDNTTKLVLANALYF
KGAWTDQFDSYGTKNDYFYLLDGSSVQTPFMSSMDDDQYISSSDGLKVLKLPYKQGGDNR
QFSMYILLPEAPGGLSLSLAEKLSAEPDFLERHIPRQRVAIRQFKLPKFKISFGMEASDLL
KCLGLQLPFSDEADFSEMVDSPMPQGLRVSSVFHQAFVEVNEQGTEAAASTAIKMVPQQA
RPPSVMDFIADHPFLFLLREDISGVVLFMGHVVNPLLS

>accession|AAB50883.1|Putative Myr p I=allergenic polypeptide {N-terminal}
[Myrmecia pilosula]
MKLSCLLLTLAII FVLTIVHAPNVEAKDLADPESEAVGFADAFGEADAVGEADPNAGLGS
VFGRLARILGRVIPKVAKKLGPVAKVLPKVMKEAIPMAVEMAKSQEEQQPQ

>accession|AAC27724.1|Allergen latex patatin homolog [Hevea brasiliensis]

MATGSTTLTQGGKITVLSIDGGGIRGIIPGIILASLESKLQDLGPDARIADYFDIIAGT
STGGLITMTLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTSTDVIIPTFDIKLLLPVIFPSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAATNPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDSHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIAATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>accession|AAB58417.1|Allergen 30 kDa salivary gland allergen Aed a 3
[Aedes aegypti]

MKPLVKLFLFLFCLVGIIVLSRPMPEDEEPVAEGGDEETTTDDAGGDGEEENEHAGDED
AGGEDTGKEENTGHEDAGEEDAGEEDAGEEDAEKEEGEKEDAGDDAGSDDGEEDSTGGDE
GEANAEDSKGSEKNDPADTYRQVVALLDKDTKVDHIQSEYLR SALNNDLQSEVRVPVVEA
IGRIGDYSKIQGCFFKSMGKDVKKVISEEEKFKSCMSKKKSEYQCESDSFAAAKSKLSP I
TSKIKSCVSSKGR

>accession|S65144|Putative pollen allergen group II (clone 42) - rape
[Brassica napus]

MADATEKTEHDRFFKKFDANGDGTISSTELGDALKNLGSVTHDDIKRMMAEIDTDGDGFI
SYQEFSDFAKANRGLMKDVAKIF

>accession|S65145|Putative pollen allergen group II (clone 44) - rape
[Brassica napus]

MADATEKAEHDRFFKKFDANGDGTISSTELGDALKNLGSVTHDDIKRMMAEIDTDGDGFI
SYQEFSDFAKANRGLMKDVAKIF

>accession|S65143|Putative pollen allergen group II (clone 4) - turnip
(fragment) [Brassica rapa]

ETERAEHDRIFKKFDANGDGKISASELGDALKNLGSVTHDDIKRMMAEIDTDGDGYISYQ
EFSDFASANRGLMKDVAKIF

>accession|CAA73782.1|Putative cellular serine proteinase [Aspergillus
fumigatus]

MKGYSLSILPLLVAASPVVDSIHNGAAPILSSMNAKEVPDSYIVVFKKHVNAESAAAAH
HSWVQDIHSAQNERVELRKRSLFGFGEEAYLGLKNTFDIAGSLVGYSGHFHEDVIEQVRK
HPDVEYIEKDSEVHTMEDPTVEKSAPWGLARISHRDSLSFGTFNKYLYASEGEGVDAYT
IDTGINVDHVDFEGRAQWGKTIPTDDEDADGNHGHGTHCSGTIAGRKYGVAKKANLYAVKV
LRSSGSGTMSDVVAGVEWAVKSHLKKVKDAKDGIKGFKGSVANMSLGGGKSRTLEAAVN
AGVEAGLHFVAAGNDNADACNYSAAAENPITVGASTLQDERAYFSNYGKCTDIFAPGL
NILSTWIGSKHAVNTISGTSMASPHIAGLLAYFVSLQPSKDSAFVDELTPKKLKDI IA
IATQGALTDIPSDTPNLLAWNGGSSNYTDIIASGGYKVNASVKDRFEGLVHKAELLLTE
ELGAIYSEIHDAAVA

>accession|CAA69670.1|Putative profilin 1 [Cynodon dactylon]
MSWQAYVDDHLMCEIEGHHLTSAAIIGHDGTVWAQSAAFPAPFKPEEMANIMKDFDEPGFL
APTGLFLGPTKYMVIQGEPEGAVIRGKKGSGGVTVKKTGQALVIGIYDEPMTPGQCNMVE
KLG DYLIEQGM

>accession|CAB03715.1|Allergen major allergen [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAATGAYKSVEVKGDGGAGTVRIITLPE
GSPITMTVVRTDAVNKEALS YDSTVIDGDILLGFIESIETHMVVPTADGGSITKTTAIF
HTKGD VVPEENIKFADAQNTALFKAIEAYLIAN

>accession|CAB03716.1|Allergen major allergen [Daucus carota]

MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVDVKGDDGAGTVRIITLPE
GSPITSMTVRTDAVNKEALTYDSTVIDGDILLGFIESIETHLVVPTADGGSITKTTAIF
HTKGDVAVPEENIKFADEQNTALFKAIEAYLIAN

>accession|CAB06416.1|Allergen major allergen Dau c 1/1 [Daucus carota]
MGAQSHSLEITSSVSAEKIFSGIVLDVDTVIPKAAPGAYKSVEVKGDDGAGTVRIITLPE
GSPITSMTVRTDAVNKEALTYDSTVIDGDILLGFIESIETHLVVPTADGGSITKTTAIF
HTKGDVAVPEENIKFADAQNTALFKAIEAYLIAN

>accession|CAB06417.1|Putative xylosidase [Aspergillus niger]
MAHMSRPVAATAAALLALALPQALAQANTSVDYNIENPDLYPLCIETIPLSFPDCQN
GPLRSHLICDETATPYDRAASLISLFTLDELIAANTGNTGLGVSRLGLPAYQVWSEALHGL
DRANFSDSGAYNWATSFPQPILTAAALNRTLHQAISIISTQGRAFNNAGRYGLDVYAPN
INTFRHPVWGRGQETPGEDVSLAAYVAYEYITGIQGPDPESNLKLAATAKHYAGYDIENW
HNHSRLGNDMNITQQDLSEYYTPQFHVAARDAKVQSVMCAYNAVNGVPACADSYFLQTL
RDTFGFVDHGYVSSDCDAAYNIYNPHGYASSQAAAAEAIALAGTDIDCGTTYQWHLNESI
AAGDLSRDDIEQGVIRLYTTLVQAGYFDSNTTKANNPYRDLSDVLETDANNISYQAAT
QGIVLLKNSNNVLPTEKAYPPSNTTVALIGPWANATTQLLGNYYGNAPYMISPRAAFEE
AGYKVNFAEGTGISSTSTSGFAAALSAAQSADVIYAGGIDNTLEAEALDRESIAWPGNQ
LDLIQKLASAAGKKPLIVLQMGGGQVDSSSLKNNTNVSALLWGGYPGQSGGFALRDIITG
KKNPAGRLVTTQYPASYAEFPATDMNLRPEGDNPQTYKWTGEAVYEFHGHLFYTTFA
ESSNTTTKEVKLNIQDILSQTLEDLASITQLPVLNFTANIRNTGKLESYDYMVFANTS
DAGPAPYPKKWLVGWDRLEGEVKGVEGTRRLRVPVEVGSFARVNEGDWVFPPTFELALNL
ERKVRVKVVLEGEVVLKWPGE

>accession|CAA73221.1|Putative group 2 allergen [Tyrophagus
putrescentiae]
MKFLILFALVAVAAAGQVKFTDCGKKEIASVAVDGCEGDLCVIHKSKPVHVIAEFTANQD
TCKIEVKVTGQLNGLEVPPIGIEFDGCKVLKCPKKGTKYTMNYSVNVPSVVPNIKTVVK
LLATGEHGVLAGAVNTDVKP

>accession|AAC34736.1|Allergen Cr-PII allergen [Periplaneta americana]
INEIHSIIIGLPPFVPPSRRHARRGVINGLIDDVIAILPVDELKALFQEKLETSPDFKAL
YDAIRSPEFQSIISTLNAMQRSEHHQNLDRDKGVDVDHFIQLIRALFGLSRAARNLQDDL
DFLHSLEPISPRHRHGLPRQRRRSARVSAYLHADDHFKIITTIEALPEFANFYNFLKEHG
LDVVDYINEIHSIIIGLPPFVPPSRRHARRGVINGLIDDVIAILPVDELKALFQEKLET
PDFKALYDAIRSPEFQSIISTLNAMPEYQELLQNLDRDKGVDVDHFIRVDQGTLRTLSSGQ
RNLQDDLNDFLALIPTDQILAIAMDYLANDAEVQELVAYLQSDDFHFKIITTIEALPEFAN
FYNFLKEHGLDVVDYINEIHSIIIGLPPFVPPSRRHARRGVINGLIDDVIAILPVDELKA
LFQEKLETSPDFKALYDAIDLRSRA

>accession|AAC34737.1|Allergen Cr-PII allergen [Periplaneta americana]
VGVDGLIDDIIAILPIDDLKALFQEKLETSLDFKAFYDAVRSPEFQSIQTLNAMPEYQD
LLQKLRDKGVDVDHYIELIRALFGLTREARNLQDDLNDFLALIPTDQILAIAMDYLANDA
EVQELVAYLQSDDFHFKIINTIEALPEFANFYNFLKGHGLDVANYINEIHSIIIGLPPFVPP
SRRHARRGVINGLIDDVIAILPVDELKTLFQEKLETSPDFKALYDAIRSPEFQSIISTL
NAMPEYQELLQNLDRDKGVDVDHFIELIRSWFGLP

>accession|CAB10766.1|Allergen group V grass pollen allergen [Holcus
lanatus]
QKLEEDVNASFKA AVAAA AKVPPADKYKTF LRAFTVLD RGSTEQSKAEETKMPELSSKLV
DAYMAAFKASTGGTQEAKYDAFVTTL TEALRVIAGALEVHAVKPATEEVPAAKIPAGDLQ
VVDKIDASFKIAATAANAAPANDKFTVFETA FNKALKESTGGAYESYKFIP SLEAAVKQA
YASTVAAAPEVKYAVFEAALTKAITAMSQAQKVAQPA AAAATGAATVAAGAATTAAGGYKV

>accession|CAB10765.1|Allergen group V allergen [Holcus lanatus]
ADAGYTPAAPAAAGAGGKATTDEQKLLLEDVNAGFKTAVAAAAANVPPADKYKTFEAAFTAS
SKASIAAAATKAPGLIPQLNAATNTAYAAAQGATPEAKYDAFVTTLLEALRVIAGALEVH
AVKPATEEVGAAKIPAGELQIVDKIDAAFRIAATAANAAPVNDKFTVFEGAFNKAIKEST
GGAYEAYKFIPSLETAVKQAYAAATVATAPEVKYTVFETALKKAITAMSEAQKEAKPVAAA
TGAATAAAGVAAGAATAAAGGYKV

>accession|AAB66909.1|Putative pollen allergen [Olea europaea]
DEAQFKCEYDTCHEKESDKGNFTFCCEMKCDTDCSVKDVKEKLENYKPKN

>accession|AAB65434.1|Putative sol i 3 antigen [Solenopsis invicta]
MELIVSILWLAITAENLANTLATNYCNLQSCKRNNAIHTMCQYTSPTPGPMCLEYSNVGF
TDAEKDAIVNKHNELRQRVASGKEMRGTNGPQPPAVKMPNLTWDPELATIAQRWANQCTF
EHDACRNVERFAVGQNI AATSSSGKNKSTPNEMILLWYNEVKDFDNRWISSFPSSDDNILM
KVGHYTQIVWAKTTKIGCGRIMFKEPDNWTKHVLCNYGPAGNVLGAPIYEIKK

>accession|AAB72147.1|Allergen allergen Bla g 5 [Blattella germanica]
YKLTYPVKALGEP IRFLLSYGEKDFEDYRFQEGDWP NLKPSMPFGKTPVLEIDGKQTHQ
SVAISRYLGKQFGLSGKDDWENLEIDMIVDTISDFRAAIANYHYDADENSKQKKWDPLKK
ETIPYYTKKFDEVVKANGGYLAAGKLTWADFYFVAILDYLNHMAKEDLVANQP NLKALRE
KVLGLPAIKAWVAKRPPTDL

>accession|AAB69424.1|Allergen tropomyosin [Dermatophagoides
pteronyssinus]
MEAIKKKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRLQKKIQQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMKMLEHRSITDEERMEGLENQLKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDTQTFAEELTGY

>accession|CAA50281.1|Allergen Major Pollen Allergen Phl p Va [Phleum
pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGADAAGKATTEEQKLI EKINAGFKAALAGAGVQP
ADKYRTFVATFGPASNKAF AEGLSGEPKGA AESSKAALTSKLDAA YKLAYKTAEGATPE
AKYDAYVATLSEALRI IAGTLEVHAVKPAEEV KVIPAGELQVIEKVDAAFKVAATAANA
APANDKFTVFEEAFNDEIKASTGGAYESYKFI PALEAAVKQAYAAATVATAPEVKYTVFET
ALKKAITAMSEAQKAAPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAA81609.1|Allergen pollen allergen PhlpVb [Phleum pratense]
AAA AVPRRGPRGGPGRSYTADAGYAPATPAAAGAAAGKATTEEQKLI EDINVGFKAAVAA
AASVPAADKFKTFEAAFTSSSSKAAA AKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFVA
SLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAATAPADDK
FTVFEEAFNKAIKESTGGAYD TYKCIPSLEAAVKQAYAAATVAAAAPQVKYAVFEAALTKAI
TAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>accession|CAA96545.1|Allergen major allergen Bet v 1 [Betula pendula]
MGVFN YETETTSVIP AARLFKAFFLDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFRYVKDRVDEVDHTNFKYSYSVIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKEEQIKASKEMGETLLRAVESYLLAHSDAYN

>accession|CAA70608.1|Putative profilin 2 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMIQGEPGA VIRGKKGAGGITIKKTGQALVVG IYDEPMTPGQCNM VVE

RLGDYLVEQGM

>accession|CAA70609.1|Putative profilin 3 [Phleum pratense]
MSWQTYVDEHLMCEIEGHHLASAAIFGHDGTVWAQSFQPKPEEITGIMKDLDEPGHL
APTGMFVAAAKYMVIQGEFPAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVE
RLGDYLVEQGM

>accession|CAA75141.1|Allergen tropomyosin [Dermatophagoides
pteronyssinus]
MEAIKNKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMKMLEHRSITDEERMEGLENQLKEARMMADADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVGRLEDELVHEKEKYKSIDELDQTFAEELTGY

>accession|AAD13683.1|Allergen major allergen Mal d 1 [Malus x domestica]
MGVYTFENEYTTSEIPPPRLFKGFVLDADNLIPKIAPOAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKKHIDSVDANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHDPDAYN

>accession|CAA73038.1|Allergen Ole e 1.0102 protein [Olea europaea]
MEDVPPVPSQFHIQGGVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDVTFTEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNP
LRFYKKEALPKCAQVYNKLGMYPPNM

>accession|CAA73037.1|Allergen Ole e 1.0103 protein [Olea europaea]
MEDVPPVPSQFHIQGGVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDVTFTEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILSTVNGTTRTVNP
LGFYKKEALPKCAQVYNKLGMYPPNM

>accession|CAA73036.1|Allergen Ole e 1 protein [Olea europaea]
MEDVPPVPSQFHIQGGVYCDTCRSRFFITELSEFIPGASVRLQCREKENGDIPTFEIGYT
RAEGLYSMLVERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNP
LGFFKKEALPKCAQVYNKLGMYPPNM

>accession|CAA73035.1|Putative profilin 1 [Olea europaea]
MSWQAYVDDHLMCDIEGHEDHRLTAAAIIVGHDGSVWAQSATFPQPKPEEMNGIMTDFNEP
GHLAPTGLHLGGTKYMIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNM
VVERLGDYLVEQGM

>accession|Q28050.1|Putative S100 calcium-binding protein A7 (Allergen
Bos d 3) (Dander minor allergen BDA11) (Dermal allergen BDA11) (Calcium-
binding protein in amniotic fluid 2) (CAAF2) [Bos taurus]
MSSSQLEQAITDLINLFHKYSGSDDTIEKEDLLRLMKDNFPNFLGACEKRGRDYLSNIFE
KQDKNKDRKIDFSEFLSLLADIATDYHNSHGAQLCSGGNQ

>accession|Q28133.1|Putative Allergen Bos d 2 precursor (Dander major
allergen BDA20) (Dermal allergen BDA20) [Bos taurus]
MKAVFLTLFLGLVCTAQETPAEIDPSKIPGEWRIIYAAADNKDKIVEGGPLRNYYRRIEC
INDCESLSITFYLDKQGTCLLLTEVAKRQEGYVYVLEFYGTNTLEVIHVSENMLVTTYVEN
YDGERITKMTTEGLAKGTSFTPEELEKYQQLNSERGVNENIENLIKTDNCP

>accession|P55958.1|Allergen Probable nonspecific lipid-transfer protein 2 precursor (LTP 2) (Major pollen allergen Par j 2.0101) (Par j II) (P2 protein) [Parietaria judaica]
MRTVSM AALVVIAAALAWTSSAEPAPAPAPGEEACGKVVQDIMPCLH FVKGEEKEPSKEC
CSGTKKLSEEVKTTEQKREACKCIVRATKGISGIKNELVAEVPKKCDIKTTLPPITADFD
CSKIQSTIFRGYY

>accession|Q41260.1|Putative Major pollen allergen Pha a 1 precursor (Pha a I) [Phalaris aquatica]
MMKMVCS SSSSSLLVVAALLAVFVGS AQGI AKVPPGPNITAEYGDKWLDAKSTWYGKPTG
AGPKDNGGACGYKDVKAPFNGMTGCGNTPIFKDGRGCGS FELKCSKPESCSGEPITVH
ITDDNEEPIAPYHFDLSGHAFGSM AKGEEENVRGAGELQLQFRRVKCKYPDGTKPTFHV
EKGSNP NYLALLVKYVDGDGDVVAVDIKEKGDKWI ELKESWGAIWRIDTPDKL TGPF TV
RYTTEGGTKAEFEDVIPEGWKADTHDASK

>accession|P56164.1|Putative Major pollen allergen Pha a 5.1 precursor (Pha A 5) (Clone 28) [Phalaris aquatica]
MAVQKYTMALFLAVALVAGPAAPTPTPTPTPLPPRARDKATLTSRVEDINAASRRP
WWASVPPADKFKTFADHVLCPVNADV TSAATKAPQLKAKLDAAYRVAYEAAEGSTPEAKY
DAFIAALTEALRVIAGAFEVH AVKPATEE VVADPVGELQIVDKIDAAFKIAATAANSAPA
NDKFTVFEGAFNKAIKESTAGAYETYKFI PSLEAAVKQAYGATVARAPEVKYAVFEAGLT
KAITAMSEA QKVAKPPLSPQPQV LPLAAGGAATVAAASDVRVCRSHGTLQDACLLRCRG
GCQPVVWRGGSHRARGGYKV

>accession|P56165.1|Putative Major pollen allergen Pha a 5.2 precursor (Pha a 5) (Clone 14) [Phalaris aquatica]
MAVQKYTVALFLAVALVAGPAALYAGDGYAPATPAASATL ATPATPAAS PQHAGTTEYHI
VRKAGLNEEKNAARQTDDEQKRSDEINCPDFNKS VHC RADRLPVCSS TSAHSSKQDVAVM
LGYGSIQGF SMD DASVGSVSSEFHVIESAIEVITYIGEEVKVIPAGEVEVINKVKA AFST
AATAADEAPANDKFTVFVSSFNKAIKETTGGAYAGYKFIPTLEAAVKQAYAASSATAPEV
KYAVFETALKKAISAMSEA QKEAKPAAAI SAATTTISASTATPAAPPPPQLGTATPAAVA
GGYKV

>accession|P56166.1|Putative Major pollen allergen Pha a 5.3 precursor (Pha a 5) (Clone 29) [Phalaris aquatica]
MAVQKYTVALFLAMALVAGPAASYAADAGTPTPATPAVPGAAAGKATTHEQKLIEDINA
AFKWWPASAPPADKYKTFETA FSKANIAGASTKGLDAAYSVVYNTAAGATPEAKYDSFVT
ALTEALRIMAGTLEVH AVKPATEE EVPSAKILRANSRSTRSSRFKIAATVATPLSHSTA
ANSAPANDKFTVFEGAFNKAIKERHGGPTETYKFI PSLEAAVKQAYGATVARAPEVKYAV
FEAGLTKAITAMSEA QKVAKPVRLSPQPQV LPLAAGGAATVAAASDSRGGYKV

>accession|P56167.1|Putative Major pollen allergen Pha a 5.4 (Pha a 5) (Clone 5) [Phalaris aquatica]
AKYDAFIAALTEALRVIAGAFEVH AVKPATEE VPAAKIPAGELQIVDKIDAAFKIAATAA
NSAPANDKFTVFEGAFNKAIKERHGGAYETYKFI PSLEASRSKQAYGATVARAPEVKYAV
FEAGLTKAITAMSEA QKVAKPVR SVTAAAGAATAAGGAATVAASRPTSAGGYKV

>accession|P02221.2|Putative Globin CTT-I/CTT-IA precursor (Erythrocrucorin) [Chironomus thummi thummi]
MKFLILALCVAAAMAGPSGDQIAAAKASWNTVKNNQVDILYAVFKANPDIQTAFS QFAGK
DLDSIKGTPDFSKHAGRVVGLFSEVMDLLGNDANTPTILAKAKDFGKSHKSRASPAQLDN
FRKSLVVYLK GATKWDSAVESSWAPVLD FV FSTLKNEL

>accession|P02224.2|Putative Globin CTT-VI precursor [Chironomus thummi thummi]
MKFLVLALCIAAASA AVLTTTEQADLVKKTWSTVVKFNEVDILYAVFKAYPDIMAKFPQFAG
KDLSIKDSAAFATHATRIVSFLSEVISLAGSDANIPAIQNLAKELATSHKPRGVSKDQF
TEFRTALFTYLLKAHINFDPGTETAWTLALDTTYAMLFSAMDS

>accession|CAA05186.1|Allergen pollen allergen Betv1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLVKVPAPQAISVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA05187.1|Allergen pollen allergen Betv1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLVKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA05188.1|Allergen pollen allergen Betv1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLVKVPAPQAISVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA05190.1|Allergen pollen allergen Betv1 [Betula pendula]
MGVFNJETETTSVIPAAARLFKAFILDGDNLVKVPAPQAISVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|AAB82404.1|Allergen Cr-PII [Periplaneta americana]
MKLPIMILAVLGVAFGKSLPNRNLQDDLNDLFLALLPVDEITAIVMDYLANDAEVQEA VAY
LQGEFHKIVFTVEGLQEFGNFVQFLEDHGLDAVGYINRLHSVFGWDPYVPSSKRKHTRR
GVGVDGLIDDIIAILPIDDLKALFQEKLETSPDFKAFYDAVRSPEFQSIVQTLNAMPEYQ
DLLQKLRDKGVVDVHYIELIRALFGLTRAARNLQDDLNDLFLALIPTDQILAIAMDYLAND
AEVQELVAYLQSDDFHKIINTIEALPEFANFYNFLKGHGLDVADYINEIHSIIIGLPPFV
PSRRHARRGVINGLIDDVIAILPVDELKALFQEKLETSPDFKALYDAIRSPEFQSIIST
LNAMPEYQELLQNLNRDKAVD VDHFIELIRSLFGLP

>accession|AAC48794.1|Allergen Can f 1 [Canis lupus familiaris]
MKTLLLTIGFSLIAILQAQDTPALGKDTVAVSGKWLKAMTADQEVPEKPD SVTPMILKA
QKGGNLEAKITMLTNGQCQNITVVLHKTSEPGKYTAYEGQRVVF IQPSPVRDHYILYCEG
ELHGRQIRMAKLLGRDPEQSQEALDFREFSRAKGLNQEILELAQSETCSPGGQ

>accession|AAC48795.1|Allergen Can f 2 [Canis lupus familiaris]
MQLLLLTVGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLIKPWGHFRVFI
HSMSAKDGNLHGDILIPQDGQCEKVSLTAFKTATSNKFDLEYWGHNDLYLAEVDPKSYLI
LYMINQYNDTSLVAHLMVRDL SRQQDFLPAFESVCEDIGLHKDQIVVLSDDDR CQGSRD

>accession|AAB86960.1|Putative profilin [Zea mays]
MSWQAYVDEHLMCEIEGQHL SAAAI VGHGDSVWAQSESFP ELKPEEVAGI IKDFDEPGTL
APTGLFVGGTKYMIQGEFVIRGKKGTTG GITIKKTGMSLIIGVYDEPMT PGQCNM VVE
RLGDYLIEQGF

>accession|AAC48287.1|Allergen slow tropomyosin isoform [Homarus americanus]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANIRA EKTEEEIRITHKKMQQVENELDQV
QEQLSLANTKLEEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA

DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEYKSITDELDTQTFSELSGY

>accession|AAC48288.1|Allergen fast tropomyosin isoform [Homarus
americanus]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANIRAEEKSEEEVHNLQKRMQOLENDLDQV
QESLLKANTQLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEYKSITDELDTQTFSELSGY

>accession|AAB97141.1|Allergen major allergen protein homolog [Prunus
armeniaca]

MGVFTYETEFTSVIPPEKLFKAFILDADNLIPKVAPTAVKGTILEGDGGVGTIKKVTFG
EGSQYAYVKHRVDGIDKDNLSYSYTLIEGDALSDVIENIAYDIKLVASPDGGSIVKTTSH
YHTKGDVEIKEEQVKAGKEKAAGLFLVEAYLLANPDAYN

>accession|AAD13644.1|Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDELLEKMKKDGKTKKDLQAKILYYYDELEGDADKEATEHL
KDGCREILKHVVGEEKEAELKCLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPAC
KKIFAAAHTSRRRR

>accession|AAD13645.1|Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDELLEKMKKDGKTKKDLQAKILHYYDELEGDADKEATEHL
KDGCREILKHVVGEEKEAELKPKKDSGASKEEVKTKVEEALHAVTDEEKKQYIADFGPAC
KKIFGAAHTSRRRR

>accession|AAD13646.1|Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDELLEKMKKDGKTKKDLQAKILHYYDELEGDADKEATEHL
KDGCREILKHVVGEEKEAELKCLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPAC
KKIFGAAHTSRRRR

>accession|AAD13647.1|Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDELLEKMKKDGKTKKELEAKILHYYDELEGDADKEATEHL
KGGCREILKHVVGEEKAAELKNLKDMSGASKEELKAKVEEALHAVTDEEKKQYIADFGPAC
KKIYGVHTSRRRR

>accession|AAD13649.1|Putative ABA-1 allergen [Ascaris lumbricoides]

HHFTLESSLDTHLKWLSQEQKDESLKMKKGGKAKKELEAKILHYYDEPEGADKEATEHL
KGGCREILKHVVGEEKAAELKNLKDMSGASKEELKAKVEEALHAVIDEEKKQYIADFGPAC
KKIFGVHTSRRRR

>accession|AAD13650.1|Putative ABA-1 allergen [Ascaris lumbricoides]

HTMEHYLKYLSWLTEEQKEKLEKEMKEAGQTKAEIQHEVMHYDQLHGEEKQQATEKLV
GCKMLLGGIIGEEKVVELRNVKEAGADIQELQKVEKMLSEVTDEKQKEKVHEYGPACCK
IFGATTLQHRRRRHHFTLESSLDTHLKWLSQEQKDELLEKMKKDGKAKKELEAKILHYYD
ELEGADKEATEHLKGGCPEILKHVVGEEKAAELKNLKDMSGASKEELKAKVEEALHAVT
DEEKKQYIADFGPACCKIYGVHTSRRRR

>accession|AAD13651.1|Putative ABA-1 allergen [Ascaris lumbricoides]

HTMEHYLKYLSWLTEEQKEKLEKEMKEAGKTKAEIQHEVMRYDQLHGEEKQQATEKLV
GCKMLLGGIIGEEKVVELRNMKEAGADIQELQKVEKMLSEVTDEKQKEKVHEYGPACCK
IFGATTLQHRRRRHHFTLESSLDTHLKWLSQEQKDELLEKMKKDGKAKKELEAKILHYYD

ELEGDAKKEATEHLKGGCREILKHVVGEEKAAELKLNKDSGASKEELKAKVEEALHAVTD
EKKQYIADFGPACKKIYGVHTSRRRR

>accession|AAD13652.1|Putative ABA-1 allergen [*Ascaris lumbricoides*]
HTMEHYLKYTLISWLTTEEQKEKLEKEMKEAGKTKAEIQHEVMHYDQLHGEEKQQATEKLV
GCKMLLKGIIIGEEKVVELRNMKEAGADIQELQOKVEKMLSEVTDEKQKEKVHEYGPACK
IFGATTLQHRRRRHHFTLESSLDTHLKWLSQEQKDELKMKKDGKTKKELEAKILHYD
ELEGDAKKEATEQLKGGCREILKHVVGEEKAAELKLNKDSGASKEELKAKVEEALHAVTD
EKKQYIADFGPACKKIYGVHTSRRRR

>accession|AAB93837.1|Putative ABA-1 allergen [*Ascaris lumbricoides*]
HTMEHYLKYTLISWLTTEEQKEKLEKEMKEAGKTKAEIQHEVMRYDQLHGEEKQQATEKLV
GCKMLLKGIIIGEEKVVELRNMKEAGADIQELRQKVEKMLSEVTDEKQKEKVHEYGPACK
IFGATTLQHRRRR

>accession|AAB93839.1|Putative ABA-1 allergen [*Ascaris lumbricoides*]
HTMEHYLKYTLISWLTTEEQKEKLEKEMKEAGKTKAEIQHEVMHFYDQLHGEEKQQATEKLV
GCKMLLKGVIIGEEKVVELRNMKEAGADIQELQOKVEKMLSEVTDEKQKEKVHEYGPACK
IFGATTLQHRRRR

>accession|AAC67308.1|Putative 22.6 kDa tegumental antigen [*Schistosoma japonicum*]
MATTEYRLSLMEQFIRAFIEIDKDNNELIDKQELTKYCQQNQMDMKQIDPWIARFDTDKD
GKVSLEEFRCRFGFLKVVEVRREKEELKKDKEGKVSTLPLDIQIIAATMSKAKQYNICCKF
KELDKTSRTGDEVRAVANDLKAFLDSEYGRVWQVIILTGSYWMNFSHEPFLSMQFKYSN
YVCLLWRTPSS

>accession|AAB95638.1|Allergen peroxisomal-like protein [*Aspergillus fumigatus*]
MSGLKAGDSFSPDVVFSYIPWSEDKGEITACGIPINYNASKEWADKKVILFALPGAFTPV
CSARHVPEYIEKLEPEIRAKGVDVAVLAYNDAYVMSAWGKANQVTGDDILFLSDPDRFS
KSIWGADEEGRTRKRYALVIDHGKITYAALEPAKNHLEFSSAETVLKHL

>accession|AAB99797.1|Putative allergenic protein [*Oryza sativa* (japonica cultivar-group)]
MASNKVVFVSVLLAVVSVLAATATMAEYHHQDQVVYTPGPLCQPGMGYPMPYPLRVAGVGE
APLLGRARPRRRVAVPGDCCRQFPVDYSWCRCEAISHMLGGIYRELGAPDVGHMSEVFR
GCRRGTWSARRRAPGVLQVDIPNGGGGVCYWLARSGY

>accession|CAA05978.1|Allergen prohevein [*Hevea brasiliensis*]
EQCGRQAGGKLCNNLCCSQWGCSTDEYCSPDHNCQSNCKDSGEGVGGGSASNVLATY
HLYNSQDHGWDLNAAAYCSTWDANKPYSWRSKYGWTAFCGPVGAHGQPSCGKCLSVTNT
GTGAKATVRIVDQCSNGGLDLVNVFRQLDTDGKGYERGHLLTVNYQFVDCGDSFNPLFSV
MKSSVIN

>accession|Q25641.1|Allergen Allergen Cr-PI precursor (Allergen Per a 3)
[*Periplaneta americana*]
MKTALVFAAVFAARFPDHDYKQLADKQFLAKQRDVLRLFHRVHQHNILNDQVEVGI
PMTSKQTSATTVPSPGEAVHGVLEQEGHARPRGEPFSVNYEKHREQAIMLYDLYFANDYD
TFYKTACWARDRVNEGFMYSFSIAVFRDDMQGVMLPPPVEVYPYLFVDHDIHMAQKY
WMKNAGSGEHHSHVIPVNFTRLRTQDHLAYFTSDVNLNAFNYYRYYPYPSWYNTTLYGHN
IDRRGEQFYTYKQIYARYFLERLSNDLPDVPYFYYSKPVKSAYNPNLRYHNGEEMPVRP
SNMYVTNFDLYYIADIKNYEKREDAIDFGYAFDEHMKPHSLYHDVHGMEYLADMIEGNM
DSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSLHEPETVLRDPVIFYQLWKRVDHLFQK

YKNRLPRYTHDELAFEGVKVENVDVGKLYTYFEQYDMSLDMAVYVNNVDQISNVDVQLAV
RLNHKPFITYNIEVSSDKAQDVYVAVFLGPKYDYLGREYDLNDRRHVFVEMDRFPYHVGAG
KTVIERNSHDSNIIAPERDSYRTFYKQVQAEYEGKSQYVVDKGHNYCGYPENLLIPKGGK
GGQAYTFYVIVTPYVKQDEHDFEPYNYKAFSYCGVGSERKYPDNKPLGYPFDRKIYSNDF
YTPNMYFKDVIIIFHKKYDEVGVQGH

>accession|CAA11266.1|Putative rAsp f 9 [Aspergillus fumigatus]
KRSFILRSADMYFKYTAALAAVLPLCSAQTWSKCNPLEKTCPPNKGLAASTYTADFTSA
SALDQWEVTAGKVPVGPQGAFTVAKQGDAPTIDTDFYFFFGKAEVVMKAAPGTGVVSSI
VLESDDLDEVDWEVLGGDTTQVQTNFYFGKGDTTTTYDRGTYVPVATPQETFHTYTIIDWTKD
AVTWSIDGAVVRTLTYNDAKGGTRFPQTPMRLRLGWSWAGGDPSPNKGTIEWAGGLTDYSA
GPYTMVYKSVRIENANPAESYTYSDNSGSWSQSIKFDGSVDISSSSSVTSSTTSTASSASS
TS

>accession|CAA75803.1|Putative TSI-1 protein [Solanum lycopersicum
(Lycopersicon esculentum)]
MGVNTYTYESTTTTISPTRLFALVLDLFDNLVPKLLSQHVKNNETIEGDGGVGSIKQMNFFV
EGGPIKYLKHKIHVIDDKNLETKYSLIEGDILGEKLESITYDIKFEANDNGGCVYKTTTE
YHTKGDHVVSEEEHNVRRENHEYFQGCRSIPSRESFCLRLNIDEKESGLHVRNYACT

>accession|AAC34312.1|Allergen allergen [Periplaneta americana]
SIISTLNAMPEYQDLLQNLDRDKGVDVDHYIELIRALFGLTRAARNLQDDLNDLFLALIPD
QILAIAMDYLANDAEVQELVAYLQSDDFHKIITTEIEGLPEFANFYNFLKEHGLDVADFLN
EIHSIIIGLPPFVPPSRRRHARRGVINGLIDDVIAILPVDELKALFDEKLETSPDFKALYD
AIRSPEFQSIISTLNAMPEYQDLLQNLDRDKGVDVDHFIELIRSLFGLP

>accession|CAA73720.1|Putative Profilin [Mercurialis annua]
MSWQTYVDDHLMCDIDGQGHAAASIVGHGDSIWAQSASFPQLKPEEITGIMKDFDEPG
HLAPTGLYIAGTKYMIQGESGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTGQCNMV
VERLGDYLIIEQGM

>accession|CAA76556.1|Allergen Phl p6 allergen [Phleum pratense]
MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEEQKLIEDINASFRAAMATTANVPPAD
KYKTFEAAFTVSSKRNLADAVSKAPQLVLPKLDEVYNAAYNAADHAAPEDKYEAFVLFHSE
ALHIIAGTPEVHAVKPGA

>accession|CAA76557.1|Allergen Phl p6 allergen [Phleum pratense]
MAAHKFMVAMFLAVAVVLGLATSPTAEGGKATTEEQKLIEDVNASFRAAMATTANVPPAD
KYKTFEAAFTVSSKRNLADAVSKAPQLVLPKLDEVYNAAYNAADHAAPEDKYEAFVLFHSE
ALRIIAGTPEVHAVKPGA

>accession|CAA76558.1|Allergen Phl p6 IgE binding fragment [Phleum
pratense]
TEEQKLIEDVNASFRAAMATTANVPPADKYKTLAAFTVSSKRNLADAVSKAPQLVLPKL
EVYNAAYNAADHAAPEDKYEAFVLFHSEALRIIAGTPEVHAVKPGA

>accession|CAA04959.1|Allergen rAsp f 4 [Aspergillus fumigatus]
GEVGDYVYATINGVLVSWINEWSGEAKTSDAPVVSQATPVSNAVAAAAAASTPEPSSSHSD
SSSSSGVSADWTNTPAEGEYCTDGFGRTEPSGSGIFYKGNVGPWGSNIIIEVSPENAKK
YKHVAQFVGSDDTDPWTVVFWNKIGPDGGLTGWYGNSALTLHLEAGETKYVAFDENSQGAW
GAAKGDELPKDQFGGYSCTWGEFDFDSKINHGWSGWDVSAIQENAHHEVQGMKICNHAG
ELCSIIISHGLSKVIDAYTADLAGVDGIGGKVVPGPTRLVVNLDYKE

>accession|CAA06305.1|Allergen Aspfl allergen [Aspergillus fumigatus]

RLVYNQAKAESNSHHAPLSDGKTGSSYPHWFTNGYDGDGKLIKGRMPIKFGKADCDRPPK
HGKDGMGKDDHYLLEFPFDPDGHDKYKFDKSKPKEDPGPARVIYTPNKVFCGIVAHERGN
QGDLR

>accession|CAA11755.1|Putative profilin [Glycine max]
MSWQAYVDDHLLCGIEGNHLTHAAIIGQDGSVWLQSTDFPQFKPEEITAIMNDFNEPGSL
APTGLYLGGTKYMVIQGEFPAVIRGKKGPGGVTVKKTGAALIIGIYDEPMTPGQCNMVVE
RLGDYLIDQGY

>accession|CAA11756.1|Putative profilin [Glycine max]
MSWQAYVDDHLLCDIEGNHLTHAAIIGQDGSVWAQSTDFPQFKPEEITAIMNDFNEPGSL
APTGLYLGGTKYMVIQGEFPAVIRGKKGPGGVTVKKTGAALIIGIYDEPMTPGQCNMVVE
RPGDYLIDQGY

>accession|AAC38996.1|Allergen fast muscle tropomyosin [Panulirus
stimpsoni]
MKLEKDNAMDRADTLEQQNKEANIRAEKAEVEVHNLQKRMQQLENDLDQVQESLLKANTQ
LEEKDKALSNAEGEVAALNRRIQLEEDLERSEERLNTATTKLAEASQAADSESRMRKVL
ENRSLSDDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAEERAETGESKF
VELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAEFAERSVQKLQ
KEVDRLEDELVNEKEYKSITDELDQTFSELSGY

>accession|CAA11041.1|Allergen latex allergen [Hevea brasiliensis]
MATGSTTLTQGGKITVLSIDGGGIRGIIPGIILASLESKLQDLGDARIADYFDIIAGT
STGGLITTMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTLTDVIIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGAAATNPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESGHIATEENLQRLVEIGTRLLEKQESRINLDTGRLES
IPGASTNEAAITKFAKLLSEERKLRQLK

>accession|BAA25899.1|Putative Bd 30K [Glycine max]
MGFLVLLLFSLGLSSSSSISTHRSILDLDLTKFTTQKQVSSLFQLWKSEHGRVYHNHEE
EAKRLEIFKNNLNIRDMNANRKSPhSHRLGLNKFADITPQEFSSKYLQAPKDVSQQIKM
ANKKMKKEQYSCDHPPASWDWRKKGVIQVQYQGGCGSGWAFSATGAIEAAHAIATGDLV
SLSEQELVDCVEESESEGCYNGWHYQSFVWLEHGGIATDDDYPYRAKEGRCKANKIQDKVT
IDGYETLIMSDESTESETEQAFLSAILEQPIVSIDAKDFHLYTGGIYDGENCTSPYGIN
HFVLLVGYGSADGVYWIAKNSWGEDWGEDGYIWIQRNTGNLLGVCGMNYFASYPTKEES
ETLVSARVKGHRRVDHSPL

>accession|P81216.1|Putative Dander allergen Equ c 2.0101 [Equus
caballus]
SQXPQSETDYSQLSGEWNTIYGAASNIXK

>accession|P81217.1|Putative Dander allergen Equ c 2.0102 [Equus
caballus]
XQDPQSETDYSQLSGEWNT

>accession|AAC16525.1|Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQKLIKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAFAEGLSAEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATPEAEYDAYVATL
SEALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDLSALKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFI PALEAAVKQAYAATVATAPEVKYTVFETALKKAITATS
EAQKAAPATEATATATAAVGAATGAATAATGGYKVV

>accession|AAC16526.1|Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQKLI EKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAF AEGLSAEPKGA AESSKAALTSKLDAA YKLA YKTAEGATPEAKYDAYVATL
SEALRI IAGTLEVHAVKPA AEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAPATEATATATAAVGAATGAATAATGGYKV

>accession|AAC16527.1|Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQKLI EKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAF AEGLSAEPKGA AESSKAALTSKLDAA YKLA YKTAEGATPEAKYDAYVATL
SEALRI IAGTLEVHAVKPA AEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMS
EAQKAAPAAAATATATS AVGAATGATTAAGGYKV

>accession|AAC16528.1|Allergen major allergen Phl p 5 [Phleum pratense]
ADLGYGGPATPAAPAEAAPAGKATTEEQKLI EKINDGFKAALAAAAGVPPADKYKTFVAT
FGAASNKAF AEGLSAEPKGA AESSKAALTSKLDAA YKLA YKTAEGATPEAKYDAYVATL
SEALRI IAGTLEVHAVKPA AEEVKVIPAGELQVIEKVDSAFKVAATAANAAPANDKFTVF
EAAFNNAIKASTGGAYESYKFIPALEAAVKQAYAATVATAPEVKYTVFETALKKAFTAMS
EAQKAAPATEATATATAAVGAATGAATAATGGYKV

>accession|CAA75312.1|Allergen profilin [Hevea brasiliensis]
MSWQTYVDERLMCEIEGNHLTAAAIIGQDGSVWAQSSNFPQFKSEEITAIMSDFDEPGTL
APTGLHLGGTKYMV IQGEAGAVIRGKKGPGGVTVRKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLLEQGM

>accession|CAB01591.1|Putative endochitinase [Persea americana]
MVYCTASLPLLLLLLVGLLAGEFAEQCGRQAGGALCPGGLCCSQFGWCGSTSDYCGPTC
QSQC GGVT PSPGGVASLISQSVFNQMLKHRNDAACQAKGFYTYNAFIAAANSFNFGFASV
GDTATRKREIAAFLAQTSHETTGGWATAPDGPYAWGYCF LKEQGNPPDYCVPTAQWPCAP
GKKYYGRGPIQISYNYNGPAGRAIGYDLINNPDAVATDPVISFKTALWFWMT PQSPKPS
CHNVITGRWTPSAADRAAGRLPGYGVITNIINGGIECGKGFNDKVADRIGFYKRYCDLLG
VSYGSNLDCYNQRSFGVSTNPLAASS

>accession|AAC24001.1|Allergen isoflavone reductase related protein
[Pyrus communis]
MASKSQILFIGGTGYIGKFIVEASAKAGYPTYVLVREASLSDPAKSKVIENFKALGVN FV
LGDLYDHESLVKAIKQVDV VISTVGHGQLADQGKI IAAIKEAGNVKRFFPSEFGNDVDRS
HAVEPAKSAFETKAKIRRAVEAEGIPYTYVSSNFFAGYFLPTLNQPGASSAPRDKVVILG
DGNPKAIFNKEDDIGTYTIRAVDDPRTL NKVLYIRPPANTISFNELVSLWEKKIGKTLE R
IYVPEEQLLKNIQEAAVPLNVILSISHAVFVKGDHTNFEIEPSFGVEATALYPDVKYTTV
DEYLNQFV

>accession|CAA54818.1|Putative major allergen [Ligustrum vulgare]
EDVPQPPVSQFYIQGQVYCDTCRARFITEELSEFIPGAGVRLQCKDGENGKVTTFTEVG YTK
AEGLYNMLIERDHKNEFCEITLISSSRKDCDEI PTEGWVKPSLKFV LNTVNGTTRTINPL
GFLKKEVL PKCPQVFNKLGMYPPNM

>accession|CAA54819.1|Putative major allergen [Ligustrum vulgare]
EDVPQPPVSQFYIQGQVYCDTCRARFITEELSEFIPGAGVRLQCKDGENGKITTFTEVG YTR
AEGLYSMLIERDHKNEFCEITLLSSSRKDCDEIPIEGWVKPSLKFMLNTVNGTTRTINPL
GFFKKEALPKCPQVFNKLGMYPPNM

>accession|P81402.1|Allergen Nonspecific lipid-transfer protein 1 (LTP 1)
(Major allergen Pru p 3) (Pru p 1) [Prunus persica]
ITCGQVSSALAPCIPYVRGGGAVPPACCNIGIRNVNLRARTTPDRQAACNCLKQLSASVPG
VNPNNAAALPGKCGVHIPYKISASTNCATVK

>accession|CAA11042.1|Allergen latex allergen [Hevea brasiliensis]
MATGSTTLTQGGKITVLSIDGGGIRGIIPGIILASLESKLQDLDPDARIADYFDIIAGT
STGGLITTMLTAPNEDKKPIYQAKDIKDFYLENCPKIFPKESRDTYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTLTDVIIIPAFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAAANPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESSGHIAATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>accession|AAC25994.1|Allergen group V allergen Phl p 5.0103 precursor
[Phleum pratense]
MAVHQYTVALFLAVALVAGPAGSYAADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKAT
TEEQKLIKINAGFKAALAAAAGVPPADKYRTFVATFGAASNKAFAGELSGEPKGAAESS
SKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATVSEALRI IAGTLEVHAVKPAEEVK
VIPAGELQVIEKVDAAFKVAATAANAAPANDKFTVFEEAFNDAIKASTGGAYESYKFIPA
LEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQKAAKPAAAATATATAAVGAAT
GAATAATGGYKV

>accession|AAC25995.1|Allergen group V allergen Phl p 5.0203 precursor
[Phleum pratense]
SVKRSNGSAEVHRGAVPRRGPRGGPGRSYAADAGYAPATPAAAGAEAGKATTEEQKLIED
INVGFKA AVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVGA
TPEAKFDSFVASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVA
TAAATAPADDKFTVFEEAFNKAIKESTGGAYDITYKCIPSLEAAVKQAYAATVAAAAPQVKY
AVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>accession|AAC25997.1|Allergen group V allergen Phl p 5.0206 precursor
[Phleum pratense]
MAVQKYTVALFLAVALVAGPAASYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGF
KAAVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVAYKAAVAVGATPEAK
FDSFVASLTEALRVIAGALEVHAVKPVTEEDPAWPKIPAGELQIIDKIDAAFKVAATAAAT
APADDKFTVFEEAFNKAIKESTGGAYDITYKCIPSLEAAVKQAYAATVAAAAPQVKYAVFEA
ALTKAITAMSEVQKVSQPATGAATVAAGAATTATGAASGAATVAAGGYKV

>accession|AAC25998.1|Allergen group V allergen Phl p 5.0207 precursor
[Phleum pratense]
MAVQKYTVALFLAVALVAGPAASYAADAGYAPATPAAAGAEAGKATTEEQKLIEDINVGF
KAAVAAAASVPAADKFKTFEAAFTSSSKAATAKAPGLVPKLDAAYSVSYKAAVAVGATPEAK
FDSFVASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAATAAAT
APADTVFEEAFNKAIKESTGGAYDITYKCIPSLEAAVKQAYAATVAAAAPQVKYAVFEAAL
TKAITAMSEVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

>accession|CAA76831.1|Allergen pollen allergen Aln g 4 [Alnus glutinosa]
MADHHPQDQAEHERIFKCFDANGDGKISASELGDALKTLGSVTPDEVKHMMAEIDTDGDG
FISFQEFTNFARANRGLVKDVAKIF

>accession|CAA76841.1|Allergen albumin [Canis familiaris]
MDTYKSEIAHRYNDLGEEHFRGLVLFVAFSQYLQCCPFEDHVKLAKEVTEFAKACAAEESG
ANCDKSLHTLFGDKLCTVASLRDKYGDMA DCCEKQEPDRNECF LAHKDDNPGFPPLVAPE

PDRLCAAFQDNEQLFLGKYLIEIARRHPYFYAPELLYYAQQYKGVFAECCQAADKAAACLG
PKTEALREKVLSSAKERFKCASLQKFGDRAFKAWSVARLSQRFPKADFAEISKVVTDLT
KVHKECCHGDLLECADDRADLAKYMCENQDSISTKLKECCDKPVLEKSQCLAEVERDEL
GDLPSLAADFVEDKEVCKNYQEAKDAFLGTFLYEYSRRHPEYSVLLLLRLAKEYEATLEK
CCATDDPPTCYAKVLDEFKPLVDEPQNLVKTNCELFEKLGEGYGFQNALLVRYTKKAPQVS
TPTLVEVSRKLGKVGTKCCKKPESEMSCADDFLSVVLNRLCVLHEKTPVSEVTKCCSE
SLVNRPCFSGLEVDETYVPKEFNAETFTFHADLCTLPEAEKQVKKQTALVELLKHKPKA
TDEQLKTMGDFGAFVEKCCAENKEGCFSEEGPKLVAAAQAALV

>accession|CAA76847.1|Allergen bovine serum albumin [Bos taurus]
MKWVTFISLLLLFSSAYSRGVFRRDTHKSEIAHRFKDLGEEHFKGLVLIAFSQYLQCCPF
DEHVKLVELTEFAKTCVADESHAGCEKSLHTLFGDELCKVASLRETYGDMADCCEKQEP
ERNECFLSHKDDSPDLPKLPDPNTLCDEFKADEKKFWGKYLIEIARRHPYFYAPELLYY
ANKYNGVFQECCQAEDKGACLLPKIETMREKVLTSARQRLCASIQKFGERALKAWSVA
RLSQKFPKAEFVEVTKLVTDLTKVHKECCHGDLLECADDRADLAKYICDNQDTISSKLKE
CCDKPLLEKSHCIAEVEKDAIPENLPPLTADFAEDKDVCKNYQEAKDAFLGSFLYEYSRR
HPEYAVSVLLRLAKEYEATLECCAKDDPHACYSTVFDKLLKHLVDEPQNLIKQNCDFEK
LGEYGFQNALIVRYTRKVPQVSTPTLVEVSRSLGKVGTRCCTKPESEMPCTEDYLSLIL
NRLCVLHEKTPVSEKVTCCTESLVNRRPCFSALTPDETYVPKAFDEKLFTFHADICTLP
DTEKQIKKQTALVELLKHKPKATEEQKLTVMENFVAFVDKCCAADDKEACFAVEGPKLVV
STQATALA

>accession|AAD05375.1|Allergen calcium-binding pollen allergen [Olea
europaea]
MADDPQEVAEHERIFKRFDANGDGKISSSELGETLTKLGSVTPEEIQRMMAEIDTDGDGF
ISFEEFTVFARANRGLVKDVAKIF

>accession|CAA08836.1|Allergen BDAI-1; Barley dimeric alpha-amylase
inhibitor [Hordeum vulgare subsp. vulgare]
MGAMWMKSMMLVLLLCMLMVTMTGARSDNSGPMWCDPEMGHKVSPLTRCRAVVKLECV
GNRVPEDVLRDCCQEVANISNEWCRGDLGSMRLRSVYAALGVGGGPEEVFPGCQKDVMLK
LVAGVPALCNVPIPNAAAGTRGVVYWSASTDT

>accession|CAA76887.1|Allergen p7 protein [Phleum pratense]
MADDMERIFKRFDNGDGKISLSELTDALRTLSTSADEVQRMMAEIDTDGDGFIDFNEF
ISFCNANPGLMKDVAKVF

>accession|BAA32435.1|Putative MF1 [Malassezia furfur]
MPGDPTATAKNEIPDTLMGYIPWTPELDSGEVCGIPTTFKTRDEWKGKVVIVSIPGAY
TPICHQQHIPPLVKRVDELKAGVDVAVYVIASNDPFVMAAWGNFNNAKDKVVFATDIDLA
FSKALGATIDLSAKHFGERTARYALIIDDNKIVDFASDEGDTGKLQNASIDTILTKV

>accession|BAA32436.1|Putative MF2 [Malassezia furfur]
EIGSTIPNATFAYVPYSPELEDHKVCGMPTSFQSHERWKGKVVIVAVPGAFTPTCTANH
VPPYVEKIQELKSKGVDEVVVISANDPFVLSAWGITEHAKDNLTFADVNCFESKHFNAT
LDLSSKGMGLRTARYALIANDLKVEYFGIDEPEPKQSSAATVLSKL

>accession|CAA75506.1|Putative profilin [Helianthus annuus]
MSWQAYVDEHLMCDIEGTGQHLTSAAILGLDGTVWAQSAKFPQFKPEEMKGIKEFDEAG
TLAPTGMFIAGAKYMLVQGEPAVIRGKKGAGGICIKKTGQAMIMGIYDEPVAPGQCNMV
VERLGDYLLEQGM

>accession|AAC36740.1|Putative thaumatin-like protein precursor Mdt11
[Malus domestica]

MMKSQVAPRPTLAILFFFSGAHAAKITFTNNCPNTVWPGLTGDQKPQLSLTGFELASKA
SRSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIAA
NGGQDYDVLVDGFLNPMVAPQGGTGECKPSSCPANVNKVCAPLQVKAADGSVISCK
SACLAFGDSKYCCTPPNNTPETCPPTTEYSEIFEKQCPQAYSAYDDKNSTFTCSGGPDYV
ITFCP

>accession|AAC61869.1|Putative tropomyosin [Crassostrea virginica]
RNRKVLLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAITEVDLERAEARLE
AAEAKVLELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRATEAER
TVSKLQKEVDRLEDELLAEKERYKAISDELDTQTFAGELAGY

>accession|AAC63045.1|Allergen glycinin [Arachis hypogaea]
RQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNNQEFECAGVALSRLVLRNALRRP
FYSNAPQEIFIQQGRGYFGLIFPGCPRHYEEPHTQGRRSQSQRP RRRLQGEDQSQQQRDS
HQKVHRFDEGLIAVPTGVAFWLNDHDTDVVAVSLTDTNNNDNQLDQFPRRFLNLAGNTE
QEFRLRYQQQSRQSRRRSLPYSYSPQSQPRQEEREFSPRGQHSRRERAGQEEENEGGNIF
SGFTPEFLEQAFQVDDRQIVQNLRGETESEEEGAIVTVRGGLRILSPDRKRRADEEEEEYD
EDEYEDDEEDRRRGRGRGRNGIEETICTASAKKNI GRNRSPDIYNPQAGSLKTANDLN
LLILRWLGP SAEYGNLYRNALFVAHYNTNAHSIIYRLRGRAHVQVVD SNGNRVYDEELQE
GHVLLVVPQNFVAVAGKSQSENFYVAFKTD SRPSIANLAGENSVIDNLPEEVVANSYGLQR
EQARQLKNNNPFKFFVPPSQQSRAVA

>accession|CAA83015.1|Putative metalloprotease (MEP) [Aspergillus
fumigatus]
MRGLLLAGALALPASVFAHPAHQSYGLNRRRTVDLNAFRLKSLAKYVNATETVIEAPSSFA
PFKPKQSYVEVATQHVKMIAPDATFRVVDHVDGNGVAHVHFRQTANGLDIDNADFNVNV
GKDGKVFVSYGNSFYTGQIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTEEK
ESYVFKGVSGTVDSPKAKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVV
DYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTTSRGNNGIAQSN
PSGGPSYLNRYRPSSSSLSFYKYPYSVSSSPSSYIDASIIQLFYTANIYHDLTYTLGFTTE
KAGNFYNTNGQGGLGNDYVILNAQDGSNTNANFATPPDGQPGMRMYVWTESTPYRDG
SFEAGIVIHEYTHGLSNRLTGGPANSNCLNALES GGMGEGWSDFMATAIRLKP GDKRSTD
YTMGEWASNRAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAIGTVWASMLYEVLWNLIDK
HGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMALQPCNPNFVQARDAILDADTALTGGENQ
CEIWTAFAKRGLGAGAKYSSRN RVGSTEVP SGVC

>accession|AAC82355.1|Allergen small rubber particle protein [Hevea
brasiliensis]
MAEEVEEERLKYLDVFRAGVYAVDSFSTLYLYAKDISGPLKPGVDTIENVVKTVVTPVY
YIPLEAVKFVDKTVDVSVTSLDGVVPPVIKQVSAQTYSVAQDAPRIVLDVASSVFNTGVQ
EGAKALYANLEPKAEQYAVITWRALNKLPLVPQVANVVPTAVYFSEKYNDVVRGTTEQG
YRVSSYLPLLPTEKITKVFGEAS

>accession|CAA10140.1|Putative major group I allergen Hol 1 1 [Holcus
lanatus]
MASSSLVLLVVALFAVFLGTAHGIKVPVPPGNITATYGDKWLDKSTWYGKPTGAGPKDN
GGACGYKDVDKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPESCSGEPIVVHITDDNE
EPIAAYHLDSLGAFAKAMAKKGEQKLSRAGELELKFRRVKCEYPKGTKVTFHVEKGSNP
NYLALLVKYVDGDGDVVAVDIKEKGDKWIELKESWGAVWRVDTDPDKLTGPFTVRYTTEG
GTKVEAEDVIPEGWKADTAYESK

>accession|CAA81613.1|Allergen pollen allergen Phl pI [Phleum pratense]
MASSSVLLVVALFAVFLGSAHGIPKVPVPPGNITATYGDKWLDKSTWYGKPTAAGPKDN
GGACGYKDVDKPPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNE

EPIAAYHFDLSGIAFGSMAKKGDEQKLSAGEVEIQFRRVKCKYPEGTKVTFHVEKGSNP
NYLALLVKFVAGDGDVVAVDIKEKGDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEG
GTKGEAKDVIPEGWKADTAYESK

>accession|P81496.1|Putative Allergen C-C [Triticum aestivum]
SFREQCVPGREITYECLNACAAYAVRQ

>accession|O24170.1|Putative Profilin-2 (Pollen allergen Ole e 2) [Olea
europaea]
MSWQAYVDDHLMCDIEGHEGHRLTAAAIVGHGDSVWAQSATFPQFKPEEMNGIMTDFNEP
GHLAPTGLHLGGTKYMVVIQGEAGAVIRGKKKSGGITIKKTGQALVFGIYEPPVTPGQCNM
VVERLGDYLLEQGL

>accession|O24171.1|Putative Profilin-3 (Pollen allergen Ole e 2) [Olea
europaea]
MSWQAYVDDHLMCDIEGHEGHRLTAAAIVGHGDSVWAQSATFPQFKPEEMNGIMTDFNEP
GHLAPTGLHLGGTKYMVVIQGEAGAVIRGKKKSGGITIKKTGQALVFGIYEPPVTPGQCNM
VAERLGDYLLEQGL

>accession|AAC82349.1|Putative group 2 allergen Eur m 2 0101 [Euroglyphus
maynei]
MYKILCLSLLVAAVAADQVDIKDCANHEIKKVMVPGCKGSEPCVIHRGTAFQLEAVFDAN
QNSNAAKIEIKATIDGVEIDVPGIDNNLCHFMCPLVKGQEYDIKYTWNVPRIAPKSENV
VVTVKLLGDNGVLACAIATHAKIRD

>accession|AAC82350.1|Putative group 2 allergen Eur m 2 0102 [Euroglyphus
maynei]
VAAVAADQVDVKDCANHEIKKVMVPGCKGSEPCVIHRGTAFQLEAVFDANQNSNAAKIEI
KATIDGVEIDVPGIDNNLCHFMCPLVKGQEYDIKYTWNVPRIAPKSENVVVTVKLLGDN
GVLACAIATHAKIRD

>accession|AAC82351.1|Putative group 1 allergen Eur m 1 0101 precursor
[Euroglyphus maynei]
MKIILAIASLLVLSAVYARPASIKTFEEFKKAFNKTYATPEKEEVARKNFLES�KYVESN
KGAINHLSDSLDEFKNQFLMNANAFEQLKTQFDLNAETYACINSVSLPSELDLRLSLRT
VTPIRMQGGCGSCWAFSGVASTESAYLAYRNMSLDLAEQELVDCASQNGCHGDTIPRGIE
YIQQNGVVQEHYYPYVAREQSCHRPNQRYGLKNYCQISPPDSNKIRQALTQHTTAVAVI
IGIKDLNAFRHYDGRITIMQHDNGYQPNYHAVNIVGYGNTQGVDYWIVRNSWDTTWDNGY
GYFAANINLMMIEQYPYVVML

>accession|AAC82352.1|Putative group 1 allergen Eur m 1 0102 [Euroglyphus
maynei]
KHLSTIMKIILAIASLLVLSAVYARPASIKTFEEFKKAFNKSYATPEKEEVARKNFLES�
KYVESNKGAINHLSDSLDEFKNQFLMNANAFEQLKTQFDLNAETYACINSVSLPSELD
LRLSLRTVTPIRNQGGCGSCWAFSGVASTESAYLAYRNMSLDLAEQELVDCASQNGCHGDT
IPRGIEYIQQNGVVQEHYYPYVAREQSCHRPNQRYGLKNYCQISPPDSNKIRQALTQHT
TAVAVIIGIKDLNAFRHYDGRITIMQHDNGYQPNYHAVNIVGYGNTQGVDYWIVRNSWDTT
WGDNGYGYFAANINLMMIEQYPYVVIL

>accession|CAA07318.1|Allergen pollen allergen Betv1, isoform at8 [Betula
pendula]
MGVFNYETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDTNFKYNYSVIEGGPVGDTLEKISNEIKIVTTPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>accession|CAA07319.1|Allergen pollen allergen Betv1, isoform at10
[Betula pendula]

MGVFNYETETTSVIPAAARLFKAFILDGDNLVPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVEGYLLAHS DAYN

>accession|CAA07320.1|Allergen pollen allergen Betv1, isoform at14
[Betula pendula]

MGVFNYETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNN

>accession|CAA07323.1|Allergen pollen allergen Betv1, isoform at37
[Betula pendula]

MGVFNYETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA07324.1|Allergen pollen allergen Betv1, isoform at42
[Betula pendula]

MGVFNYETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKLVATPDGGSILKISNK
YHTKGDHEMKAHEMKAIKEKGETLLRAVESYLLAHS DAYN

>accession|CAA07325.1|Allergen pollen allergen Betv1, isoform at45
[Betula pendula]

MGVFNYETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA07326.1|Allergen pollen allergen Betv1, isoform at50
[Betula pendula]

MGVFNYETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA07327.1|Allergen pollen allergen Betv1, isoform at59
[Betula pendula]

MGVFNYETETTSVIPAAARLFKAFILEGDTLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA07328.1|Allergen pollen allergen Betv1, isoform at87
[Betula pendula]

MGVFNYETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPMGDTLEKISNEIKIVATPDGGSILKISNN

>accession|CAA07329.1|Allergen pollen allergen Betv1, isoform at5 [Betula
pendula]

MGVFNYETETTSVIPAAARLFKAFILDGDNLIPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKLVATPDGGSILEISNK
YHTKGDHEMKAHEMKAIKEKGEALLRAVESYLLAHS DAYN

>accession|CAA07330.1|Allergen pollen allergen Betv1, isoform at7 [Betula pendula]

MGVFNJETETTSVIPAAARLFKAFILEGDNLIPKVAPQAISSVENIEGNGGPGTIKKITFP
EGSPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA10345.1|Putative pollen allergen (group II) [Dactylis glomerata]

MSMASSSSSGLLAMAVLAALFAGAWCVPKVTFTVEKGSNEKHLAVLVKYE GDTMAEVELR
EHGSDEWVAMTKGEGGVWTFDSEEP LQGPFNFRFLTEKGMKNVFDDVVPEKYTIGATYAP
EE

>accession|CAA65313.1|Putative alpha purothionin [Triticum aestivum]

MGSKGFKGVIVCLLILGLVLEQLQVEGKSCCRSTLGRNCYNLCRARGAQKLCAGVCRCKI
SSGLSCP KGF PKLALESNSDEPDTIEYCNLGCRSSVCDYMNAAADDEEMKLYVENCADA
CVSFCNGDAGLPSLDAY

>accession|AAC97369.1|Putative venom allergen Sol i 4.01 precursor [Solenopsis invicta]

MKTFVLV SCLLVFTQIIYALDIKEISIMNRILEKCI RTV PKRENDPINPLRNVNVWYCAF
TKRGIFTPKGVN TKQYINYCEKTAISPADIKLCKKIASKCVKKVYDRPGPIIERSKNLLS
CVLKKG LLELTVYGKKK

>accession|AAC97370.1|Putative venom allergen Sol i 4.02 precursor [Solenopsis invicta]

MKTFVLV SCLLVFTQIIYALDIKEISIMNRILEKCI RTV PKRENDPINPLKNVNVLYCAF
TKRGIFTPKGVN TKQYINYCEKTIISPADIKLCKKIASKCVKKVYDRPGPIIERSKNLLS
CVLKKG LLELTVYGKKK

>accession|CAA10520.1|Putative group I pollen allergen [Poa pratensis]

MASSSSVLLVVALFAVFLGTAHGI AKVPPGNITATYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKDV D KAPFSGMTGCGNTPIFKSGRGCSCFEIKCTKPESCSGEPVLVHITDDNE
EPIAAYHF DLSGKAFGAMAKKGEEQKLSAGELELKFRRVKCEYPEGTKVTFHVEKGSNP
NYLALLVKYVTGDGDVVAVDIKEKGKDKWIELKESWGS IWRV DTPDKLTGPFTVRYTTEG
GTKGEAEDVIPEGWKADTAYASK

>accession|AAD09630.1|Putative napin-type 2S albumin 1 precursor [Glycine max]

MTKLTILLIALLFIAHTCCASKWQQHQQESCREQLKGINLNPCEHIMEKIQAGRRGEDGS
DEDHILIRTMPGRIN YIRKKEGKEEEEEGHMQCCSEMSELKSPICQCKALQKIMDNQSE
QLEGKEKKQMERELMNLAIRCRLGPMIGCDLSSDD

>accession|CAA09883.1|Putative allergen [Malassezia sympodialis]

MSATTGSQAPNTTFTYIPWAP ELD SGKVCVGPQTFKAHDRWKGKKVVVVAIPGAFTPACH
QNHIPGFVEKINELKAKGVDEVVVI AVNDAFVMMSGWVTVGGKDQIVYACDNDLAFSKAL
GGTLDLTS GGMGVRTARYAVVLDDLKITYFGMDEGNMGAPEKSSVDAVLAQL

>accession|CAA09884.1|Putative allergen [Malassezia sympodialis]

MSNVFFDITKNGAPLGTIKFKLFDVVPKTAANFRALCTGEKGFYAGSHFHRVIPDFML
QGGDFTAGNGTGGKSIYGA KFADENFQLKHNKPGLLSMANAGPNTNGSQFFITTVVTSWL
DGKHVVFGVIDGMNVVKAIEAEGSGSGKPRSRIEIAKCGVC

>accession|CAA09885.1|Putative allergen [Malassezia sympodialis]

AVSASPTPSKHNL CYAQGKDLFEFHINDTVTKDVCKSLNSGKYHNMNNEKYCSVADYDV

KWFKERCQSHPTDVKTTKWIAGTDLKIEMDPKPEYELYCFNYTTFGNLPDAGAKELDDD
ATKKACSAKSGKYQSDPKKKSCRMDKDDIDQFKEQCSQYQPSDRPPYGDWSAGTSLNVV
LNLKNA

>accession|AAD03608.1|Putative pollen major allergen 1-1 [Juniperus
ashei]

MASPCLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFSGSSTMGGKGGD
FYTVTSTDDNPVNPTPGTLRYGATREKALWIIIFSQNMNIKMKPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHSLHIHGCVTSVLGDVLVSESIGVEPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMMLLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDPWNIYAIGGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESPSACANWVWRSTRDAFINGAYFVSSGKTEETNIYNSNEAFKVENGNAAPQLT
KNAGVVT

>accession|BAA74451.1|Putative cytokinin-specific binding protein [Vigna
radiata]

MVKEFNTQTELSVRLEALWAVLSKDFITVVPKVLPHIVKDVQLIEGDGGVGTILIFNFLP
EVSPSYQREEITEFDESSHEIGLQVIEGGYLNQGLSYKTTFKLSEIEEDKTLVNVKISY
DHSDIEEKVTPTKTSQSTLMYLRRLERYLSNGSA

>accession|AAD10850.1|Allergen major IgE-binding protein Blo t 5 [Blomia
tropicalis]

MKFAIVLIACFAASVLAQEHKPKKDDFRNEFDHLLIEQANHAI EKGEHQLLYLQHQLDDEL
NENKSKELQEKI IRELDVVCAMIEGAQGALERELKRTDLNILERFNYYEAAQTL SKILLKD
LKETEQKVKDIQTQ

>accession|AAD13106.1|Putative beta-xylosidase [Aspergillus niger]

MAHSMSRPVAATAAALLALALPQALAQANTS YVDYNVEANPDLYPLCIETIPLSFPDCQN
GPLRSHLICDESATPYDRAASLISLFTLDELIA NTGNTGLGVSRLGLPAYQVWSEALHGL
DRANFSDSGSYNWATSFPQPILTTAALNRTL I HQIASIISTQGRAFNNAGRYGLDVYAPN
INTFRHPVWGRGQETPGEDVSLAAYAYEYITGIQGPDPDSNLKLAATAKHYAGYDIENW
HNHSRLGNDMNITQQDLSEYYTPQFHVAARDAKVH SVMCAYNVDGVPACADSYFLQTL
RDTFGFVDHGYVSSDCDAAYNIYNPHGYASSQAAAAAEAILAGTDIDCGTTYQWHLNESI
TAGDLSRDDIEKGVIRLYTTLVQAGYFDSNTTKANNPYRDLTWSDVLETDAWNISYQAA
TQGI VLLKNSNNVLP L TEKAYPPSNTTVALIGPWANATTQLLGNYYGNAPYMISPRAAFEE
AGYKVNFAEGTGISSTSTSGFAAALSAARSADVIIYAGGIDNTLEAEALDRESIAWPGNQ
LDLIQKLASSAGSKPLIVLQMGGGQVDSSSLKNNTNVTALLWGGYPGQSGGFALRDIITG
KKNPAGRLVTTQYPASYAEFPATDMNLRPEGDNPGQTYKWTGEAVYEFHGHLFYTTFA
ESSSNTTTKEVKLNIQDILSQTHEELASITQLPVLNFTANIKNTGKLES DY TAMVFANTS
DAGPAPYPVKWLVGWDR LGDVKVGETREL RVPVEVGSFARVNEDGDWVLFPGTFELALNL
ERKVRVKVLEGE EEEVVLKWP GKE

>accession|AAD13531.1|Allergen major allergen Bla g 1.02 [Blattella
germanica]

NAIEFLNNIHDLLGIPHIPVTARKHHRRGV GITGLIDDI IAILPVDDLYALFQEKLETSP
EFKALYDAIRSPEFQSIVGTLEAMPEYQNLIQKLKDKGVDVDHIIELIHQIFNIVRDRTRG
LPEDLQDFLALIP TDQVLAIAADYLANDAEVKA AVEY LKSDEFETIVVTVD SLPEFKNFL
NFLQTNGLN AIEFLNNIHDLLGIPHIPVTGRKHLRRGVGITGLIDDI IAILPVDDLYALF
QEKLETSP EFKALYDAIRSPEFQSIVETLKAMPEYQSLIQKLKDKGVDVDHIIELIHQIF
NIVRDRTRGLPEDLQDFLALIPIDQIL AIAADYLANDAEVQA AVEY LKSDEFETIVVTVD S
LPEFKNFLNFLQTNGLN AIEF INNIHDLLGIPHIPATGRKHVRRGVINGLIDDVIAILP
VDELYALFQEKLESSPEFKALYDAIRSPEFQSIVQTLKAMPEYQDLIQRLKDKGVDVDHF
IELIKKLFGLSH

>accession|AAD13533.1|Allergen major allergen Per a 1.0101 [Periplaneta americana]

EFQSIISTLNAMPEYQELLQNLDRDKGVDVDHYIELIRALFGLTRAARNLQDDLNDLFLALI
PTDQILAIAMDYLANDAEVQELVAYLQSDDFHKIITTTIEGLPEFANFYNFLKEHGLDVAD
FLNEIHSIIIGLPPFVPPSRRHARRGVINGLIDDVIAILPVDELKALFQEKLETSPDFKA
LYDAIRSPEFQSIISTLNAMPEYQDLLQNLDRDKGVDVDHFIELIRSLFGLP

>accession|BAA74953.1|Putative glycinin [Glycine max]

MGKPFITLSSSLCLLLLSSACFAISSSKLNECQLNNLNALPDRHVESEGGLIQTWNSQH
PELKCAGVTVSKLTLNRNGLHLPSSYPYPRMIIIAQKGALGVAIPGCPETFEEPQEQSN
RRGSRSQKQQLQDSHQKIRHFNEDVLVIPPVGPYWTYNTGDEPVVAISLLDTSNFNQNL
DQTPRVFYLAGNPDIEYPETMQQQQQKSHGGRKQGQHQEEEEEGGSVLSGFSKHFLLAQ
SFNTNEDIAEKLQSPDDERKQIVTVEGGLSVISPKWQEQQDEDEDEDEDEDEDEQIPSHPP
RRPSHGKREQDEDEDEDEDEKPRPSRPSQKREQDQDQDEDEDEDEDEDEQPRKSREWRSKKTQ
PRRPRQEEPREGCETRNGVEENICTLKLHENIARPSRADFYNPKAGRISTLNSLTLPAL
RQFQLSAQYVVLYKNGIYSPHWNLNANSVIYVTRGQKVRVNCQGNVAVFDGELRRGQLL
VVPQNFVVAEQAGEQGFYIVFKTHHNAVTSYLKDVFRAIPSEVLASYNLRQSQVSELK
YEGNWGPLVNPESQQGSPRVKVA

>accession|CAA04823.1|Allergen pollen allergen, Betv1 [Betula pendula]

GVFNYEIEETTSVIPAAARLFKAFILDGDNLPKVPAPQAISSVENIEGNGGPGTIKKINFPE
GFPFKYVKDRVDEVDHTNFKYNSYVIEGGPVGDTLEKISNEIKIVATPDGGCVLKI SHKY
HTKGNHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA04826.1|Allergen pollen allergen, Betv1 [Betula pendula]

GVFNYESETTSVIPAAARLFKAFILDGDNLPKVPAPQAISSVENIEGNGGPGTIKKITFPPE
GSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKLVATPDGGSILKISNKY
HTKGDHEMKAHEMKAIKEKGETLLKAVESYLLAHS DAYN

>accession|CAA04827.1|Allergen pollen allergen, Betv1 [Betula pendula]

GVFNYETEATSVIPAAARLFKAFILDGDNLPKVPAPQAISSVENIEGNGGPGTIKKISFPPE
GIPFKYVKDRVDEVDHANFKYSYSLIEGGPVGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAA04828.1|Allergen pollen allergen, Betv1 [Betula pendula]

GVFNYESETTSVIPAAARLFKAFILDGDNLPKVPAPQAISSVENIEGNGGPGTIKKITFPPE
GSPFKYVKERVDEVDHANFKYSYSMIEGGALGDTLEKICNEIKLVATPDGGSILKISNKY
HTKGDHEMKAHEMKAIKEKGETLLRAVESYLLAHS DAYN

>accession|CAA04829.1|Allergen pollen allergen, Betv1 [Betula pendula]

GVFNYEIGATSVIPAAARLFKAFILVGDNLFPKVPAPQAISSVENIEGNGGPGTIKKISFPPE
GFPFKYVKDRVDEVDHTNFKYNSYVIEGGPVGDTLEKISNEIKIVATPNNGGSILKINNKY
HTKGDHEVKAEQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|AAD19606.1|Allergen tropomyosin [Periplaneta americana]

MDAIKKKMQAMKLEKDNAMDRALLCEQQARDANLRAEKAEERSLQKKIQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANLREEEYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLLEDELVHEKEKYKFCDDLDMFTTELIGN

>accession|AAD20386.1|Allergen pollen allergen Lol p VA precursor; major allergen [Lolium perenne]

MAVQKYTVALFLAVALVAGPAASYAADAGYTPAAAATPATPAATPAAAGGKATTDEQKLL

EDVNAGFKA AVAAAANAPPADKFKIFEAAFSESSKGLLATSAAKAPGLIPKLD TAYDVAY
KAAEGATPEAKYDAFVTALTEALRVIAGALEVHAVKPAATEEVPAAKIPTGELQIVDKIDA
AFKIAATAANAAPTNDKFTVFESAFNKALNECTGGAYETYKFIPSLEAAVKQAYAATVAA
APEVKYAVFEAALTKAITAMTQAQKAGKPAAAAATGAATVATGAATAAAGAATAAAGGYK
A

>accession|CAB38044.1|Putative tropomyosin [*Helix aspersa*]
MDAIKKKMLAMKMEKENALDRAEQVEQKLRDCECNKNKVEEDLNNLQKKFAILENDFDSI
NEQLLDANTKLEASEKKNAEIESETAGLQRRIQLEEDLERSEERLQSATEKLEEASKAA
DESERGRKVLESRLADDERLDGLEAQLKEAKYIAEDAERKFDEAARKLAITEVDLERAE
ARLEAAEAKILELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAS
EAERTVSKLQKEVDRLDEDELLAEKERYKATSDEL DSTFAELAGY

>accession|CAB38086.1|Allergen tropomyosin [*Periplaneta americana*]
MDAIKKKMQAMKLEKDNAMDCALLCEQQARDANLRAEKAEFEARSLOKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLEEDLERSEERLATATAKLAEASQAV
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANLREEEYKQQIKTLTTRRLKEAEARAE
FAERSVQKLQKEVDRLDEDELVHEKEKYKFCDDLDMTFTTELAGY

>accession|CAB39376.1|Putative Cop c1 allergen [*Coprinus comatus*]
RFLPSSSHLNPQHLPWLHPAPVLLLPLVLPQLKPVAPLPLLLPLDTTTTLHMPPLLLQLQL
PPLLSQGNPACSPKWLQLLVP

>accession|AAD13530.2|Allergen major allergen Bla g 1.0101 [*Blattella germanica*]
NLLEKLREKGVVDVKIIEELIRALFGLTLNAKASRNLDQDDLQDFLALIPVDQIIAIAIDYDYL
ANDADEVQAAVAYLQSDEFETIVVALDALPELQNFNLFLEANGLNAIDFLNGIHDLLGIPH
IPVSGRKYHIRRGVGITGLIDDVLAILPIEDLKALFNEKLETSDFLALYNAIRSPEFQS
IVQTLNAMPEYQNLQKLREKGVVDVKIIEELIRALFGLTLNGKASRNLDQDDLQDFLALIP
VDQIIAIAIDYLANDAEVQAAVAYLQSDEFETIVVTLDALPELQNFNLFLEANGLNAIDF
LNGIHDLLGIPHIPVSGRKYHIRRGVGITGLIDDVLAILPLDDLKALFNEKLETSDFLAL
LYNAIKSPEFQSIVQTLNAMPEYQNLLEKLREKGVVDVKIIEELIRALFGLTH

>accession|AAD25926.1|Allergen Pen c 1; alkaline serine protease
[*Penicillium citrinum*]
MGFLKVLATSLATLAVVDAGTLLTASNTDAVIPSSYIVVMNDDVSTAEFNTHREWATNVH
ARLSRRKNGETGPGKHFEINGLKGYTASFDESTAKDIANDPAVKYIEPDMIVNATANVVQ
SNVPSWGLARISSKRTGTTSTYDSTAGEGVVFGVDTGIDISHSDFGGRAKWGTNVVDN
DNTDGNHGHGHTASTAAGSKYGVAKKATLVAVKVLGADGSGTNSGVISGMDWAVKDAKSR
GANGKYVMNMSLGGEFSKAVNDAANVVKSGIFLSVAAGNEAENASNSSPASAAEVCTIA
ASTSTDGSASFNTFGSVVDLYAPGQSITAAYPGGGSKTLSGTSMAPHVAGVAAYLMALE
GVSAGNACARIVQLATSSISRAPSGTTSKLLYNGINV

>accession|AAD25927.1|Putative major allergenic protein Mal f4
[*Malassezia furfur*]
MFARAALRNSVRAPASARYFSQTAAANRQVAVLGASGGIGQPLSLLMKNPKVTELRLYD
IRLAPGVAADLSHINTPAVTSQYQDDLEGAVDGAIEVLIIPAGMPKPKGMTRDDLFNNSNA
SIVRDLAKVVAKVAPKAYIGVISNPVNSTVPIVAEVFKKAGVYDPKRLFGVTTLDTRAA
TFLSGIAGSDPQTTNVPVIGGHSGVTIVPLISQAAQGDQVQAGEQYDKLVHRIQFGGDEV
VKAKDGAGSATLSMAYAAAVFTEGLLKGLDGEAVTQCTFVESPLFKDQVDFASPVEFGP
EGVKNIPALPKLTAEQKLLDACLPDLAKNIKKGVAAWAENP

>accession|AAD25995.1|Putative alkaline serine protease Pen c2
[Penicillium citrinum]

MKGFLGLALLPLLTAASPVSVESIHNAAPIISSMNSQEIPDSYIVVFKKHVDTSAAAAH
HSWVQDIHSAVNGRMELKKRGLFGFDTD AFLGVKHSFHVAGSLMGYAGHFHEDVIEQVRR
HPDVDYIEKDSEVHHFDS P SVEKNAPWGLARISHRDSL SFGTFNKYLYAEDGGEGVDAYV
IDTGTNTDHFVDFEGRASWGKTIPQGD EDVDGNGHGTHCSGTIAGK KYGVAKKANVYAVKV
LRSNGSGTMSDVVKGVEWAAEAHIKKSAAKDGKAKGFKGSVANMSLGGGSSRTLDLAVN
AAVDAGMHFAVAAGNDNADACNYS PAAAEKAVTVGASTLADERAYFSNYGKCTDIFAPGL
NILSTWIGSKYAVNTISG TSMASPHIAGLLAYV VSLQPSDDSAFAVEKITPKKLKEALIT
VATSGALTDIPSDTPNLLAWNGGSSNYTDIVAQGGY

>accession|AAD26546.1|Allergen major allergen mal d 1 [Malus x domestica]

MGVYTFENEFTSEI PPSRFLFKAFVLDADNLIPK IAPQAIKQAEILEGN GGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTD TIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>accession|AAD26547.1|Allergen major allergen mal d 1 [Malus x domestica]

MGVYTFENEY TSEI P PPRFLFKAFVLDADNLIPK IAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKKH KIDSVD EANYSYAYTLIEGDALTD TIEKVS YETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESHLKGHPDAYN

>accession|AAD26548.1|Allergen major allergen mal d 1 [Malus x domestica]

MGVYTFENEY TSEI P PPRFLFKAFVLDADNLIPK IAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKKH KIDSVD EANYSYAYTLIEGDALTD TIEKVS YETKLMASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFKLIESYLKGHPDAYN

>accession|AAD26552.1|Allergen major allergen mal d 1 [Malus x domestica]

MGVYTFENEY TSEI P PPRFLFKAFVLDADNLIPK IAPQAIKQAEILEGN GGPGTIKKITFG
EGSQYGYVKKHRIDSIDEASYSYSYTLIEGDALTD TIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>accession|AAD26553.1|Allergen major allergen mal d 1 [Malus x domestica]

MGVCTFENEFTSEI PPSRFLFKAFVLDADNLIPK IAPQAIKQAEILEGN GGPGTIKKITFG
EGSQYGYVKKHRIDSIDEASYSYSYTLIEGDALTD TIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>accession|AAD26554.1|Allergen major allergen mal d 1 [Malus x domestica]

MGVYTFENEFTSEI PPSRFLFKAFVLDADNLIPK IAPQAIKQAEILEGN GGPGTIKKITFG
EGSQYGYVKKHRIDSIDEASYSYSYTLIEGDALTD TIENISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESYLKDHPDAYN

>accession|AAD26555.1|Allergen major allergen mal d 1 [Malus x domestica]

MGVYTFENEY TSEI P PPSRFLFKAFVLDADNLIPK IAPQAIKQAEILEGN GGPGTIKKITFG
EGSQYGYVKKHRIDSIDEASYSYSYTLIEGDALTD TIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKAKAHGLFKLIESYLKGHPDAYN

>accession|AAD26558.1|Allergen major allergen mal d 1 [Malus x domestica]

MGVYTFENEY TSEI P PPRFLFKAFVLDADNLIPK IAPQAIKHAEILEGDGGPGTIKKITFG
EGSQYGYVKKH KIDSVD EANYSYAYTLIEGDALTD TIEKVS YETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVMAGKEKAHGLFKLIESYLKGHPDAYN

>accession|AAD26560.1|Allergen isoallergen bet v 1 b1 [Betula pendula]

MGVFNYETETTSVIP AARLFKAFILDGDNLF PKVAPQAISSVENIEGN GGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK

YHTKGNHEVKAEQVKASKEMGETLLKAVESYLLAHS DAYN

>accession|AAD26561.1|Allergen isoallergen Bet v 1 b2 [Betula pendula]
MGVFN YETETTSVIP AARLFKAFILDGDNLF PKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGPILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYPLAHS DAYN

>accession|AAD26562.1|Allergen isoallergen bet v 1 b3 [Betula pendula]
MGVFN YETEATSVIPAARLFKAFILDGDNLF PKVAPQAISSVENIEGNGGPGTIKKISFP
EGIPFKYVKDRVDEVDHANFKYSYSLIEGGPVGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGNHEVKAEQIKASKEMGETLLRAVESYLLAHS DAYN

>accession|AAD29409.1|Allergen profilin [Apium graveolens]
MSWQAYVDDHLMCEVEGNPGQTLTAAAIIGHDGSVWAQSSTFPQIKPEEIIAGIMKDFDEP
GHLAPTGLYLGGAKYMVIIQGE PNAVIRGKKGSGGVTIKKTGQALVFGVYDEPVTGQCNV
IVERLGDY LIDQGL

>accession|AAD29410.1|Allergen profilin [Pyrus communis]
MSWQAYVDDHLMCDIDGHHLTAAAILGH DGSVWAQSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIIQGE GAVIRGKKGSGGVTVKKTSQALVFGIYEEPLTPGQCNMIVE
RLGDY LIDQGL

>accession|AAD29411.1|Allergen profilin [Prunus avium]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFP AFKPEEIIAAILKDL DQPGTL
APTGLFLGGTKYMVIIQGE GAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDY LIEQGL

>accession|AAD29412.1|Allergen profilin [Malus x domestica]
MSWQAYVDDRLMCDIDGHHLTAAAILGH DGSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIIQGE GAVIRGKKGSGGVTVKKTSQALVFGIYEEPLTPGQCNMIVE
RLGDY LIDQGL

>accession|AAD29413.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHN GSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIIQGE PGVIRGKKGPGGVTVKKSTMALLIGIYDEPMTGQCNMIVE
RLGDY LIEQGL

>accession|AAD29414.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSASFP AFKPEEIIAAILKDFDQPGTL
APTGLFLGGTKYMVIIQGE PGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTGQCNIVVE
RLGDY LIEQGL

>accession|AAD29671.1|Allergen major allergen Mal d 1 [Malus x domestica]
MGVYTFENEFTSEI PPSRLFKAFVLDADNLI PKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIDSIDEASYSYSYTLIEGDALTD TIEKISYETKLVACGSGSTIKSISHY
HTKGNIEIKEEHVKAGKEKAHGLFKLIESY LKDHDPDAYN

>accession|CAB42886.1|Allergen polygalacturonase [Phleum pratense]
GKKEEKKEEKKEESGDAASGADGTYDITKLGAKPDGKTDCTKEVEEAWASACGGTGKNTIV
IPKGDFLTGPLNFTGPKGDSVTIKLDGNLLSSNDLAKYKANWIEIMRIKKLITITGKGTL
DGQGKAVWGKNSCAKNYNCKILPNTLVLD FCDALIEGITLLNAKFFHMNIYECKGVTVK
DVTITAPGDS PNTDGIHIGDSSKVTITDTTIGTGDCISIGPGSTGLNITGVTGPGHGI
SVGSLGRYKDEKDVTDITVKN CVLKKSTNGLRIKSYEDAKSPLTAS KLT YENVKMEDVGY
PIIIDQKYCPNKICTSKGDSARVTVKDVTFRNITGTSSTPEAVSLLCSDKQPCNGVTMND

VKIEYSGTNNKTMVCTNAKVTAKEVSEANTCAA

>accession|CAB42887.1|Allergen allergen 5; antigen 5 [*Vespula vulgaris*]
NNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKIARGLE
TRGNPGPQPPAKNMKNLVWNEDELAYIAQVWANQCEYGHDTCRDVAKYQVGQNVALTGSTA
AKYDDPVKLVKMWEDEVKDYNPKKKFSGNNFLKTGHYTMVWANTKEVGCSSIKYIQEKW
HKHYLVCNYGPSGNFKNEELYQTK

>accession|CAB44442.1|Allergen PPIase [*Aspergillus fumigatus*]
FHQTPSAMSQVFFDVEYAPVGTAEKTVGRIVFNLFDKDVPKTAKNFRELCKRPAGEGYRE
STFHRIIPNFMIQGGDFTRGNGTGGRSIIYGDKFADENFSRKHKGGILSMANAGPNTNGS
QFFITTAVTSWLDGKHVVFGVEVADEKSYSVVKEIEALGSSSGSVRSNTRPKIVNCGEL

>accession|AAD38942.1|Putative alpha-amylase [*Dermatophagoides pteronyssinus*]
KYHNPHFIGNRSVITHLMEWKYDDIGDECERFLGPYGYGGVQVSPVNEHAILDRRPWYER
YQPVSYDIRTRSGDEQQFRRMVKRCNKAGVRIYVDIVLNHMTGAQSGKGTNGHHYDGNTL
QYPGVFPFPNDFHGHESCPDQLEIHDYTNPKERNCRLSGLRDLKQQSEYVRQKQVDFL
NHLIDIGVAGFRSDASTHQWPDLLRSIYRSLHNLNKEFFFPENSQPFIIYHETIYYGGNGIN
SNEYTSLGRIIEFRFYKEITNVFRGNPLHNLNKEFFFPENSQPFIIYHETIYYGGNGIN
TGKLGFNINCFEGRLLKAATAFMLAWNYGVPRVMSSYFWNQIIKDGKDVNDWVGGPPSDKN
GNILSVHPNPDMTCNHEWICEHRWREIYNMVKFRMIAGQEPVHNWWDNGDYQIAFSRGNR
AFIAINLQKNQONLQQLHTGLPAGTYCDIISGNLIDNKCTGKSIHVDKNGQADVYVGH
EFDADFVAYHIGARIVS

>accession|AAD42074.1|Putative peroxisomal membrane protein [*Penicillium citrinum*]
MSLKAGDSFPEGVTFSYIPWAEDASEITSCGIPINYNASKEFANKKVVLFPALPGAFTPVC
SANHVPEYIQLPELRAKQVDQVAVLAYNDAYVMSAWGKANGVTGDDILFLSDPEAKFSK
SIGWADEEGRTYRYVLVIDNGKIIYAAKEAAKNSLELSRADHVLKQL

>accession|AAD42942.1|Putative 15 kDa oleosin [*Sesamum indicum*]
MAEHYQQQQTRAPHLQLQPRAQRVKAATAVTTAGGSLLVLSGLTLAGTVIALTIATPLL
VIFSPVLVPAVITIFLLGAGFLASGGFGVAALSVLSWIYRYLTGKHPPGADQLESATKTL
ASKAREMKDRAEQFSQQPVAGSQTS

>accession|AAD42943.1|Putative 2S albumin precursor [*Sesamum indicum*]
MARFTIVLAVLFAAALVSASAHKTVVTTVAEEGEEENQRGCEWESRQCQMRHCMQWMRS
MRGQYEEESFLRSAAEQGFQEHFRECCNELRDVKSHCRCEALRCMMRQMQQEYGMQEMQ
QMQQMMQYLPRMCGMSYPTECRMPIFA

>accession|AAD42944.1|Allergen 11S globulin precursor [*Sesamum indicum*]
MVAFKFLLALSLSLLVSAIAQTREPRLTQGGQCRFQRISGAQPSLRIQSEGGTTELWDE
RQEQQFCAGIVAMRSTIRPNGLSLPNYHPSRLVYIERGQGLISIMVPGCAETYQVHRSQ
RTMERTEASEQQDRGSVRDLHQKVHRLRQGDIVAIPSGAAHWCYNDGSEDLVAVSINDVN
HLSNQLDQKFRAFYLGGVPRSGEQEQQARQTFHNIFRAFDAELLSEAFNVPQETIRRMQ
SEEEERGLIVMARERMTFVRPDEEEGEQEHRGRQLDNGLEETFCTMKFRTNVESRREADI
FSRQAGRHHVVDNRNKLPIKLYMDLSAEKGNLYSNALVSPDWSMTGHTIVYVTRGDAQVQV
VDHNGQALMNDRVNQGEMFVVPQYYTSTARAGNNGFEWVAFKTTGSPMRSPLAGYTSVIR
AMPLQVITNSYQISPNQAQALKMNRGSQSFLLSPPGGRRS

>accession|AAC15474.2|Putative pollen allergen Jun o 4 [*Juniperus oxycedrus*]
MDEVPSDDGSKSACSGEVVMEQSVHELEEVFKKFDANGDGKISGSELADILRSLGSDVGE

AEVKAMMEEADADGDGYVSLQEFVDLNNKGASVKDLKNAFKVFDRCNGSISAAELCHTL
ESVGEPCTIEESKNI IHNVDKNGDGLISVEEFQTMMTSEM TDKSK

>accession|AAD46493.1|Allergen L3NieAg.01 [Strongyloides stercoralis]
NSARDENGLIYTYNGNDYDTKEAMEDAIQRDYPDKIFTFGGDNNNGKKRKIDISKWKGN
NTFSNKIFDEI WEGYNYDNDKAKNFVKMKTCLFNEQNKYRIAHGAKKLIKSKDLEKKAQA
YAEVIARLGRLEHDPKNRIEGTGENLAYGTTFIGHLAVKGWYDEIALYNFKKPGFSPATG
HFTQLVWKGTTTHAGFGVVEKGDVRVYVXKYSPPGNYPRQFXANVLQRKQ

>accession|CAB51914.1|Allergen profilin Hev b 8 [Hevea brasiliensis]
MSWQAYVDDHLMCEIEGNHLSAAAIIGQDGSVWAQSANFPQFKSEEITGIMSDFHEPGTL
APTGLYIGGTMYMVIQGEFPAVIRGKKGPGGVTVKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDQGY

>accession|AAD47382.1|Allergen glycinin [Arachis hypogaea]
MAKLELSFCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEPAQQGR
RYQSQRPPRRLQEEDQSQQQQDSHQVHRFNEGDLIAVPTGVAFWLYNDHDTDVVAVSLT
DTNNNDNQLDQFPRRFLNAGNHEQEFRLYQQQSRQSRRRSLPYSYSPHSRPRREEREFR
PRGQHSRRERAGQEEDEEGNIFSGFTPEFLEQAFQVDDRQIVQNLWGENESEEEGAIVT
VRGGLRILSPDGTGADDEEYDEDEQYEHQDGRRRGRSGRGGNGIETICTACVKKNI
GGNRSPHIYDPQRWFTQNC HDLNLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYAL
RGRAHVQVVD SNGNRVYDEELQEGHVLVVPQNF AVAGKSQSENFEYVAFKTD SRPSIANF
AGENSFIDNLP EEVVANSYGLPREQARQLKNNNPFKFFVPPFQQSPRAVA

>accession|AAD48405.1|Allergen major allergen Cor a 1.0401 [Corylus
avellana]
MGVFCYEDEATSVIPPARLFKSFVLDADNLIPKVAPQHFTSAENLEGNGGPGTIKKITFA
EGNEFKYMKHKVVEEIDHANFKYCYSIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASINEEIKAGKEKAAGLFAVEAYLLAHPDAYC

>accession|CAB52710.1|Putative serpin [Triticum aestivum]
MATTLATDVRLSIAHQTRFGFRLASTISSNPESTANNVAFSPVSLHVALSLITAGAGGAT
RDQLVATLGEGEAERLHALAEQVVQFVLADASYADSPRVTFANGVFVDASLPLKPSFQEL
AVCKYKAEAQSVDFQTKAAEVTAQVNSWVEKVTGGLIKDILPAGSISNTTRLVLGNALYF
KGAWTDQFDSRVTKSDYFYLLDGSSIQTPFMYSSEEQYISSSDGLKVLKLPYKQGGDKRQ
FSMYILLPEAPSGIWSLAEKLSAEPELLERHIPRQKVALRQFKLPKFKISFGIEASDLLK
HLGLQLPFSDEADLSEMVDSPMPQGLRISSVFHKTFFVEVNETGTEAAAATIAKAVLLSAS
PPSDMDFIADHPFLFLIREDTSGVVLFIGHVVNPLRSL

>accession|CAB53458.1|Putative MnSOD [Hevea brasiliensis]
QTFSLPDLPYDYGALPAISGEIMQLHHQKHQTYITNYNKALEQLNDAIEKGD SAAVVK
LQSAIKFNGGGHVNSIFWKNLAPVREGGELPHGSLGWAIDADFGSLEKLIQLMNAEGV
ALQGSQWVWALDKELKLVVETTANQDPLVTKGP TLVPLL GIDVWEHAYYLQYKNVRPD
YLKNIWKVMNWKYASEVYAKECPSS

>accession|CAA55067.2|Putative minor allergen, ribosomal protein P2
[Davidiella tassiana]
MKYLA AFLLLGLAGNSSPSAEDIKTVLSSVGIDADEERLSSLLKELEGKDINELISSGSE
KLASVPSGGAGAASAGGAAAAGGAAEAPEAERAE EEEKEESDDDMGFGLFD

>accession|AAD52012.1|Allergen Tri r 4 allergen [Trichophyton rubrum]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKDRPSG
WNLNLKNGDINVLTTDSVDSEITWLGDTKVYIINGTDSVKGGVGIWISDAKNFGNAYK

AGSVNGAFSGLKLAKSGDKINFGVYQSTTKGDLYNEAAAKEAVSSARIYDSLFRVHWDT
YVGTQFNAVFSGLTKSGDKYSFDGKLNVLQPVKYAESPPFFGGSGDYDLSSDGKTVA
FMSKAPELPKANLTTSYIFLVPDGSRVAEPINKRNGPRTPOGIEGASSSPVFSPDGKRI
AYLQMAAKNYESDRRVIHIAEVGTNKPVQRIASNWDRSPEAVKWSSDGRTLYVTAEDHAT
GKLFLLPADARDNHKPAVVKHGDGSVSSFFYFIGSSKSVLISGNSLWSNLYQVATPDRPNR
KLFYANEHDPKGLGPNDEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDNWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
HDHIKYIDTDNGIAAGASFGGFMVNWIIQGDQLGRKFKALVSHDGTGFGSSKIGTDELFFI
EHDFTNGTFFEARQNYDRWDCSKPELVAKWSTPQLVVHNDDFRLSVAEGVGLFNVLQEKG
VPSRFLNFPDETHWVTKPENSLVWHQQVVGWVNWKWSGINKSNPKSIKLSDCPIEVVDHEA
HSYFDY

>accession|AAD52013.1|Allergen Tri r 2 allergen [Trichophyton rubrum]
MGFITKAIPVLAALSTVNGARILEAGPHAEAI PNKYIVVMKREVSDEAFNAHTTWLSQS
LNSRIMRRAGSSKPMAGMQDKYSLGGIFRAYSGEFDDAMIKDISSHDDVDFIEPDFVVRT
TTNGTNLTHQDNVPSWGLARVGSKKPGGTTYYYDPSAGKGVTAIIDIIDTGIDIDHEDFQGR
AKWGENFVDQONTDCNGHGTHTVAGTVGGTKYGLAKGVSLVAVKVLDCDGSNSGVIKGM
EWAMRQASGGGNGTAKAAGKSVMNMSLGGPRSEASNQAAKAI SDAGIFMAVAAGNENMDA
QHSSPASEPSVCTVAASKDDGKADFSNYGAVVDVYAPGKDITSLKPGGSTDTLSGTSMA
SPHVCGLGAYLIGLKGQGGPGLCDTIKKMANDVIQSPGEGTTGKLIYNGSGK

>accession|AAD52615.1|Putative phospholipase A1 [Polistes annularis]
MSPDCTFNEKDIVFYVYSRDKRDGIILKKTTLTNYDLFTKSTISKQVVFLIHGFLSTGNN
ENFVAMSKALIEKDDFLVISVDWKKGACNAFASTKDALGYSKAVGNTRHVGFVADFTKL
LVEKYKVLISNIRLIGHSLGAHTSGFAGKEVQKLLKGYKEIIGLDPAGPYFHRSDCPDR
LCVTD AEYVQVIHTSII LGVYVNVGSVDFYVNYGKNQPGCNEPSCSHTKAVKYLTECIKH
ECLLIGTPWKKYFSTPKPISQCRGDTCCVGLNAKSYPARGAFYAPVEANAPYCHNEGIL

>accession|AAD52616.1|Putative hyaluronidase precursor [Polistes
annularis]
YVSLSPDSVFNIIITDDISHQILSRSNCRSKRPKRVSIIYWNVPTFMCHQYGMNFDEVTD
FNIKHNKSKDNFRGETISIIYYDPGKFPALMPLKNGNYEERNGGVPQRGNITIHLLQQFNEDL
DKMTPDKNFGGIGVIDFERWKPIFRQNWGNTIEIHKKYSIELVRKEHPKWSESMIEAEATK
KFEKYARYFMEETLKLAKKTRKRAKWGYYGFPYCYNVTPNNPGPDCDAKATIENDRLSWM
YNNQEILFPSVYVRHEQKPEERVYLVQGRIKEAVRISNNLEHSPSVLAYWVYVYQDKMDI
YLSETDVEKTFQEIIVTNGGDGIIIWGSSSDVNSLSKCKRLREYLLNTLGPFAVNVTTETVN
GRSSLNF

>accession|AAD52672.1|Putative 98kDa HDM allergen [Dermatophagoides
farinae]
MKTIYAILSIMACIGLMNASIKRDHNDYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGFADIDEYKYTIQVFDPYQDDNHNHSEWKRGERFNNLRLKNPELTTMISLGGWY
EGSEKYSDMAANPTYRQQFIQSVLDFLQYKFDGLDLWEYPGSRLGNPKIDKQNYLALV
RELKDAFEPHGYLLTAAVSPGKDKIDRAYDIKELNKLFDWMNVMTYDYHGGWENFYGHNA
PLYKRPDETDELHTYFNVNYTMHYLLNNGATRDKLVMGVFPYGRAWSIEDRSKLLKLGDP
KGMSPPGFISGEEGVLSYIELCQLFQKEEWHIQYDEYYNAPYGYNDKIWVGYYDDLASISC
KLAFLEKELGVSGVMVWSLENDDFKGHCGPKNPLLNKVNHMINGDEKNSFECILGPSTTTP
TPTT
TPSPTTTEHTSETPKYTTYVDGHLIKCYKEGDIHPHTNIHKYLVCEFVNGGWVWHIMPCP
PGTIWCQEKLTCEGE

>accession|AAD55587.1|Allergen profilin [Arachis hypogaea]
MSWQTYVDNHLLEIEGDHLSAAILGQDGGVWAQSSHFPPQFKPEEITAIMNDFAEPPGSL

APTGLYLGGTKYMVIQGEFGAIIPGKKGPGGVITIEKTNQALIIGIYDKPMTPGQCNMIVE
RLGDYLIDTGL

>accession|AAD56337.1|Allergen allergen Arah6 [Arachis hypogaea]
AHASAMRRERGRQGDSSSCERQVDGVNLPKCEQHIMQRIHQEQYDSYNGSTRSSDQQ
QRCCDELNEMENTQRCMCEALQQIMENQCDGLQDRQMVQHFRELNMNLPQQCNFGAPQRC
DLDVSGGRC

>accession|AAD56719.1|Putative allergen [Arachis hypogaea]
MMVKLSILVALLGALLVVASATRWDPDRGSRGSRWDAPSRGDDQCQRQLQRANLRPCEEH
MRRRVEQEQQEQDEYPYSRRGSRGRQPGESDENQEQRCCELNRNFQNNQRCMCQALQQI
LQNSFWVPAGQEPVSDGEGAQELAPELRVQVTKPLRPL

>accession|P42040.2|Putative Enolase (2-phosphoglycerate dehydratase) (2-
phospho-D-glycerate hydro-lyase) (Allergen Cla h 6) (Cla h VI)
[Davidiella tassiana]
MPISKIHSRYVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKSKWAGK
GVTKAVANVNEIIAPALIKENLDVKDQAAVDAFLNKLDTNKTIGANAILGVSMVAVK
AAAAEKRVPLYAHISDLSGTTKPFVLPVPMNVVNGGSHAGGRLAFQEFMIVPSGAPSFT
EAMRQGAQEVYQKLSLTKKRYGQSAGNVGDEGGVAPDIQTAEALDLITDAIEEAGYTGQ
IKIAMDVASSEFYKKADEKKYDLDFKNPDSKSKWITYEQLADQYKQLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSGSDFQIVGDDLTVTNPEFIKKAIEFKACNALLLKVNQIGTITEAI
NAAKDSFAAGWGMVSHRSGETEDVTIADIVVGLRAGQIKTGAPARSERLAKLNQILRIE
EELGDKAVYAGDNFRTAINL

>accession|CAB58171.1|Putative troponin-like protein [Anisakis simplex]
MAEDIEEILAEIDGSQIEEYHKFFDMFDRGKQGYIMATQIGQIMHAMEQDFDEKQLRKKLI
RKFADGSGKLEFDEFKALVYTVANTVDKETLQKELREAFRLFQKEGNGYISRPTLKALL
KEIADDLSDDQLEAAVDEIDEDGSGKIEFEFELWELMAGEAD

>accession|AAB82772.2|Allergen beta-1, 3-glucanase [Musa acuminata AAA
Group]
MATKASLSIKGFALLVSVLVAVPTRVQSIGVCYGMGLGNNLPPPSEVVSLYKSNNIARMRL
YDPNQAALQALRNSNIQVLLDVPRSDVQSLASNPAAAGDWIRRNVAWPSVSVFRYIAVG
NELIPGSDLAQYILPAMRNIYNALSSAGLQNKIKVSTAVDTGVLGTSYPPSAGAFSSAAQ
AYLSPIVQFLASNGAPLLVNVYPYFSYTGNGPQISLPHYALFTASGVVVQDGRFSYQNLFD
AIVDAVFAALERVGGANVAVVSESGWPSAGGAEASTSNARTYNQNLIRHVGGGTPRRP
GKEIEAYIFEMFNENQKAGGIEQNFGLFYPNKQPVYQISF

>accession|P35776.2|Putative Venom allergen 2 (Venom allergen II)
(Allergen Sol r 2) (Sol r II) [Solenopsis richteri]
DIEAQRVLRKDIAECARTLPKCVNQPDPLARVDVWHCAMSQRGVYDNPDPVAVVKEKNSK
MCPKIITDPADVENCKKVVSRVDRETQRPRSNRQKAINITGCILRAGVVEATVLAEREK

>accession|P35779.2|Putative Venom allergen III (Allergen Sol r 3) (Sol r
III) [Solenopsis richteri]
TNYCNLQSKRNNAIHTMCQYTSPTPGPMCLEYSNVGFTDAEKDAIVNKHNELRQRVASG
KEMRGTNGPQPAPVAKMPLNLTWDEPELATIAQRWANQCTFEHDACRNVERFAVGQNIATSS
SGKNKSTLSMILLWYNEVKDFDNRWISSFSDGNILMHVGHYTIQIVWAKTKKIGCGRIM
FKEDNWNKHVLCNYGPAGNVLGAQIYEIKK

>accession|P81657.1|Putative Venom allergen 5 (Antigen 5) (Ag5) (Allergen
Vesp m 5) [Vespa mandarinia]
NNYCKIKCRSGIHTLCKFGISTKPNCGKNVVKASGLTKAEKLEILKQHNEFRQKVARGLE

TRGKPGPQPPAKSMNTLVWNDELAQIAQVWAGQCDYGHVCRNTAKYSVGNIAENGSTA
ASFASVSNMVQMWAVEVKNYQYGSTKNKLEIYVGHYTMVWAKTKEIGCGSIKYIENGWHR
HYLVCNYGPAGNIGNEPIYERK

>accession|CAB59976.1|Putative Gly d 2 [Glycyphagus domesticus]
GKMNFDTDCGHNEIKELSVSNCTGNVCVIHRGKPLTLDAKFDANQDTASVGLVLTAIIDGD
IAIDIPGLETNACKLMKCP IRKGEHQELIYNIGEIPDATPEIKAKVKAQLIGEHGVLACG
WVDGEVQE

>accession|CAB62212.1|Putative allergen, partial [Lepidoglyphus
destructor]
DDFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFID
SAKGHFERELKRADLNLAEKFNFEALSTGAVLHKDLTALATKVKAIETK

>accession|CAB62213.1|Putative allergen [Lepidoglyphus destructor]
MANIAGQYKLDKSENFQFLDKLGVGFLVKTAAKTVKPTLEVAVDGDYIFRSLSTFKNT
EIKFKLGEFEEDRADGKRVKTVIVKDGDNKFVQTYGDKVVKVREFKGDVEVEVTASVD
GVTSVRPYKRA

>accession|CAB62551.1|Allergen cup a 1 protein [Cupressus arizonica]
DNPIDSCWRGDSNWDQNRMKLADCVVGFSGSSTMGKGGEIYTVTSSDNPNPTPGTLRY
GATREKALWIIFSQNMNIKLMPLYVAGYKTIDGRGAVVHLGNGGPCLFMRKASHVILHG
LHIHGNTSVLGDVLVSESIGVEPVHAQDGDITMRNVTNAWIDHNSLSDCSDGLIDVTL
GSTGITISNNHFFNHHKVMLLGHDDTYDDDKSMKVTVAFNQFGPNAGQRMPRARYGLVHV
ANNNYDQWNIYAIGGSSNPTILSEGNSTAPNESYKKEVTKRIGCETTSACANWVWRSTR
DAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGAAPQLTQNAVVA

>accession|AAF18269.1|Putative vicilin-like protein precursor [Juglans
regia]
RGRDDDEENPRDPREQYRQCQEYCRQGGQQRQQQCQIRCEERLEEDQRSQEERERRR
GRDVEDQNPDPPEQRYEQCQQQCERQRRGQEQTLRRRCEQRRQEEERERQRGRDRQDPQ
QQYHRCQRRQIQEQSPERQRCQQRCEQYKEQQGRERGPEASPRRESRGRREEEQQRHN
PYYFHSQSIRSRHESEEGEVKYLRFTELLRGIENYRVVILDANPNTSMLPHHKDAE
SVAVVTRGRATLTLVSQETRESFNLECGDVIRVPAGATVYVINQDSNERLEMVKKLQPVN
NPGQFREYYAAGAKSPDQSYLRVFSNDILVAALNTPRDLERFFDQQEQREGVIIRASQE
KLRALSQHAMSAGQRPWGRSSGGPISLKSESPSYSNQFGQFFEACPEEHRQLQEMDVLV
NYAEIKRGAMMVPHYNSKATVVVYVVEGTGRYEMACPHVSSQSYEGQGRREQEEEEESTGR
FQKV TARLARGDIFVIPAGHP IAITASQENLRLLLGFDINGENNQRDFLAGQNNIINQLE
REAKELSFNMPREEIEEIEFESQMESYFVPTERQSRRGQGRDHPLASILDFAFF

>accession|CAB63699.1|Allergen pollen allergen [Lolium perenne]
MASSSVLLVVALFAVFLGSAHGIKVPPGNITAEYGDKWLDAKSTWYGKPTGAGPKDN
GGACGYKDVDKAPFNGMTGCGNTPIFKDRGCGSCFEIKCTKPESCSGEAVTVTITDDNE
EPIAPYHFDLSGHAFGSMAKKGEQKLSRAGELELQFRRVKCKYPDGTPTFHVEKASNP
NYLAILVKYVDGDGDVVAVDIKEKGKDKWIELKESWGAVWRIDTPDKLTGPFTVRYTTEG
GTKSEVEDVIPEGWKADTSYSAK

>accession|CAB64344.1|Allergen pollen allergen [Lolium perenne]
MAVQKYTVALFLAVALVAGPADSYAADAGYTPAAAATPATPAATPAAGGGKATTDEQKLL
EDVNAGFKAAVAADANAPPADKFKIFEAAFSECKGLLATSDAKAPGLILKLDTDYDVAY
KAGEGATPEAKYDAFVTALTEALRVIAGALEVHAVKPATEEVPAAKIPTGELQIVDKIDA
AFKIAATAANAAPTNDKFTVFESAFNKALKECTGGAYETYKFIPSLEAAVKQAYATTVA
APEVKYAVFEAALTKAITAMSAQKVAKPAAAAATGAATVATGAATAAAGGATAAAGGYK
A

>accession|AAF23726.1|Allergen allergen Pen n 13 [Penicillium chrysogenum]

MGFLKVLATSLATLAVVDAGTLLTASNTDAVIPSSYIVVMNDDVSTAEFSTHREWATNVH
ARLSRRKNGETGPGKHFEINGLKGYTASFIDENTAKDIANDPAVKYIEPDMIVNATANVVQ
SNVPSWGLARISSKRTGTTSTYTDSTAGEGVVVFYGVDTGIDISHSDFGGRAKWGTNVVDN
DNTDGNHGHGHTASTAAGSKYGVAKKATLVAVKVLGADGSGTNSGVISGMDWAVKDAKSR
GANGKYVMNTSLGGFEFSKAVNDAAANVVKSGIFLSVAAGNEAENASNSSPASAAEACTIA
ASTSTDGSASFNTFGSVVDLYAPGQSITAAYPPGGGSKTLSGTSMAPHVAGVAAYLMALE
GVSAGNACARIVQLATSSISRAPSGTTSKLLYNGINV

>accession|CAB64688.1|Allergen rAsp f 8 [Aspergillus fumigatus]

MKYLA AFLLLALAGNTSPSSEDKAVLSSVGIDADEERLNKLI AELEGKDLQELIAEGST
KLASVPSGGAAAAAPAAAGAAAGGAAAPAAKEKNEEEKEESEDEDMGFGLFD

>accession|CAB65963.1|Putative putative allergen [Lepidoglyphus destructor]

MQYLAI AVIVALAGLSAAAHKPAYYDDNMANQMVDQIVKSLT'KKELDPFKIEQTKVPID
KKIGLIHIKGSATIKNAVITGLSHISRGRDAKIDTDGGAFATLKLGDKNIRIKTDLHLD
LGKIIHPNLKFEGHIGDIDMKLKLKLD AEGKPSLDQFEIDEFEQVELFIHGLGPLDPLVD
VIADSFVKYFNPQARKLVTDMLKPILVEEIKKLLN

>accession|AAF25553.1|Allergen latex protein allergen Hev b 7 [Hevea brasiliensis]

MATGSTPLTQGGKITVLSIDGGGIRGIIPGIILASLESKLQDLDPDARIADYFDIIAGT
STGGLITMTLAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEY
LRELCNNLLKDLTVKDTLTDVIIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSA
APVLLPAHSFTTEDDKNIHTFELIDGGVAATNPTLLALTHIRNEIIRQNPRFIGANLTES
KSRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSAL
FKSLDCEDYYLRIQDDTLTGEESGHIATEENLQRLVEIGTELLEKQESRINLDTGRLES
IPGAPTNEAAIAKFAKLLSEERKLRQLK

>accession|AAF26449.1|Allergen lipid transfer protein precursor [Prunus avium]

MACSAMTKLALVVALCMVSVPIAQALTCGQVSSNLAPCIAYVRGGGAVPPACNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVNANNAALPGKCGVNPYKISPSTNCATVK

>accession|AAF26451.1|Putative lipid transfer protein precursor [Pyrus communis]

MASSAVIKLALVVALCMAVSVVAHAITCSQVSANLAPCINYVRSGGAVPPACNGIKTING
LAKTTPDRQAACNCLKNLAGSVSGVNPNAESLPGKCGVNPYKISTSTNCATVK

>accession|AAF28423.1|Putative group 6 allergen [Dermatophagoides farinae]

MIKIFLVITLIVITVTVDARFPRSLQPKWAYLDSNEFPRSKIGDSPIAGVVGQDADLAE
APFQISLLKDYLIIMKRHMCSSGLISESTVVTAHCTYGGKASSLSVRYGTNQR'TSSSYGD
LKVKPIIQHESYEQDQTQTDKTIILPNPVPVSTNVQMNEIETEDIVDGDKVTIYGWGLT
DGNGKDLDPKQLQKGSMTIVGNDRRCNEKWSINAIHPGMICALDKTQSGCNGDSSGGLVSA
NRKLTGIVSWGSPKCPPGEYMSVFTRPKYLLDWITKNIV

>accession|CAB71342.1|Putative Lep d 10 protein [Lepidoglyphus destructor]

MEAIKNKMAMKLEKDNAIDRAEIAEQSRDANLRAEKSEEEVRLQKKIQQIENELDQV
QESLTQANTKLEEKEKSLQTAEGDVAALNRRIQLIEEDLERSEGRKIATSKLEEASQSA

DESERMKMLEHRSITDEERMEGLESQKKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQQREEAYEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDTQTFELTGY

>accession|AAF31151.1|Putative calcium-binding protein [Olea europaea]
MAANTDRNSKPSVYLQEPNEVQGVFNRFDANGDGKISGDELAGVLKALGSNTSKEEIGRI
MEEIDTDKDGFINVQEFAAAFVKAETDPYPSSGGENELKEAFELYDQDHNGLISSVELHKI
LTRLGERIAEHDCVEMIKSVSDSDGDGYVSFEFEEKMMTNKSGNNSQAEPK

>accession|AAF31152.1|Putative calcium-binding protein [Olea europaea]
MAANTDRNSKPSVYLQEPNEVQGVFNRFDANGDGKISGDELACALKALGSNTSKEEIAMR
MEEIDTDKDGFINVQEFAAAFVKAETDPYPSSGGENELKEAFELYDQDHNGLISSVELHKI
LTRLGERIAEHDCVEMIKSVSDSDGDGYVSFEFEEKMMTNKSGNNSQAEPK

>accession|AAF34341.1|Allergen latex profilin Hev b 8 [Hevea
brasiliensis]
MSWQTYVDEHLMCDIDGHHLTAAAIIGHDGSVWAQSSSFPQFKPEEVAAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEFPAVIRGKKGSGGITVKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLEQGM

>accession|AAF34342.1|Allergen latex profilin Hev b 8 [Hevea
brasiliensis]
MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFPQFKSDEVAAIMKDFDEPGSL
APTGLHLGSTKYMVIQGEFPAVIRGKKGSGGITVKKTSQALIIGIYDEPLTPGQCNMIVE
RLGDYLLEQGM

>accession|AAF34343.1|Allergen latex profilin Hev b 8 [Hevea
brasiliensis]
MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSGFPQFKSDEVAAVMKDFDEPGSL
APTGLHLGGTKYMVIQGEFPAVIRGKKGSGGITVKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLEQGM

>accession|AAF35431.1|Putative heat stable allergen tropomyosin
[Charybdis feriatus]
MDAIKKKQAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLPEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAEEARAE
FAERSVQKLQKEVDRLEDELVNEK

>accession|CAB76459.1|Putative gly d 2.02 isoform [Glycyphagus
domesticus]
GKMKFKDCGKGEVTELDITDCSGDFCVIHRGKPLTLEAKFAANQDTTKATIKVLAKVAGT
PIQVPGLETGCKFVKCPKIKKGDPIDFKYTTTTVPAILPKVKAEVTAELVGDHGVACGRF
GRQVE

>accession|CAA09886.2|Putative allergen [Malassezia sympodialis]
MVALKFAAVLSVVAAMAPSSMDRRASPDNQVWVTSASDYCLILPRHRESIGDSESPG
RMRSFCSKPYDSSQGQINPGFWKEVHFKKTKNYVQLTGCINPRVQSTLLSHDDGGQYDSN
GNGGVGNPEGSVCLGYSSYVELVEPSDGKACIRCCVNDKYCDVGHDEDGCEAVIPGQYC

>accession|CAA09938.2|Putative tropomyosin [Chironomus kiiensis]
MDAIKKKQAMKLEKDNALDRALLCENQARDANLRAEKAEFEARTLQKKIQTIENTLDQT
QQQETLVNGKLEGKEKALQNAESEVAALNRRIQLLGEDLDRSEERLASATAKLSEASAAA

DESERARKILENRSLADEERMDALENQLKEARFLAEADKKYDEVARKLAMVEADLERAE
ERAEAGEAKIVELEEEELRVVGNLKSLEVSEEKANQREEEYKNQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVSEKEKYREIGDDLDTAFFVELILKE

>accession|CAB82855.1|Putative convicilin [*Pisum sativum*]
MATTIKSRFPLLLLLGIIFLASVVCVYANYDEGSEPRVPAQRERGRQEKEKEEKRHGWE
RPSYEKEEEDDEEGQRERGRQEKEKEEKRHGWRPSYEKQEDDEEEKQKYRYQREKEDEEEK
QKYQYQREKKEQKEVQPGRERWEREEDEEQVDEEWRSQRREDPEERARLRHREERTKRD
RRHQREGEEERSSSESQERRNPFLFKSNKFLTLFENENGHIRLLQRFDKRSDLFENLQNY
RLVEYRAKPHTIFLPQHIDADLILVVLGSKAILTVLSPNDRNSYNLERGDTIKLPAGTTS
YLVNQDDEEDLRLVDLVIPVNGPGKFEAFDLAKNKNQYLRGFSKNILEASYNTRYETIEK
VLLEEQEKDRKRRQOGEETDAIVKVSREQIEELKKLAKSSSKSLPSEFEPINLRSHKPE
YSNKFGLFEITPEKKYPQLQDLDFVSCVEINEGALMLPHYNSRAIVLLVNEGKGNLE
LLGLKNEQQUEREDRKERNNEVQRYEARLSPGDVVIIPAGHPVAITASSNLNLLGFGINAE
NNERNFLSGSDDNVISQIENPVKELTFPGSVQEIINRLIKNQKQSHFANAEPQKEQGSQG
KRSPLSSILGTFY

>accession|A59055|Allergen phospholipase A2 (EC 3.1.1.4), venom - Indian
honeybee [*Apis cerana*]
IIYPGTLWCCHGNVSSGPNELGRFKHTDACCRTHDMCPDVMSAGESKHGLTNTASHTRLS
CDCDDTFYDCLKNSGEKISSYFVGKMYFNLIIDTKCYKLEHPVTGCGERTEGRCLRYTVDK
SKPKVYQWFDLRKY

>accession|AAF65312.1|Putative venom allergen Sol g 4.01 precursor
[*Solenopsis geminata*]
MKTFFVLVSCLLVFTQIIYAVDIKELKIMNRILEKCIKRTVCPKGENDPINPLKNVNVLYCAF
SKRGIFTPKGVNTKQYINYCEKTIINPADIKQCKKLISKCIKKVYDRPGPIIERSKNLLS
CVLKKGVLELTVYGKKK

>accession|AAF65313.1|Putative venom allergen Sol g 4.02 precursor
[*Solenopsis geminata*]
MKTFFVLVSCLLVFTQIIYAVDIKELKIVNRILKCKCIKRTVCPKGENDPINPLKNVNVLYCAF
SKRGIFTPKGVNTKQYINYCEKTIINPADIKQCKKLISKCIKKVYDRPGPIIERSKNLLS
CVRKKGVLELTVYGKKK

>accession|AAB50734.2|Allergen Cyn d 1 [*Cynodon dactylon*]
AIGDKPGPNITATYGSKWLEARATFYGSNPRGAAPDDHGGACGYKDVKPPFDGMTACGN
EPIFKDGLGCRACYEIKCKEPVECSGEPVLVKITDKNYEHIAAYHFDLSGKAFGAMAKKG
QEDKLRKAGELTLQFRRVKCKYPSGTKITFHIEKGSNDHYLALLVKYAAGDGNIVAVDIK
PRDSDEFIPMKSSWGAIWRIDPKKPLKGPFSIRLTSEGG AHLVQDDVIPANWKPDTVYTS
KLQFGA

>accession|AAF71379.1|Putative allergen Pen n 18 [*Penicillium*
chrysogenum]
MKGFLSLTLLPLLVAASPVAVNSIHNDAAPISSMTSKDIPDSYIVVFKKHVPSSASAH
QSWLQEVHTAHTGRMELKKRSLFGDFEAFMGLKHTFHIAGSLLGYAGHFHEDVIEQIRR
HPDVDYIEKDSEVRTMSEGSVEKNAPWGLARISHRESLSFGNFKYLYAEEGGEGVDAYV
IDTGANVKHVDFEGRANWGKTIPQGDADDEDGNGHGHCHCSGTIAGKKFGVAKKANVYAVKV
LRSNGSGTMSDVVKGVWEAAEAHIKSKKGDKKFKGSVANMSLGGGSSRTLDLAVNAAVD
AGIHFAVAAGNDNADACNYSAAAIAITVGA STLADERAYFSNYGKCTDIFAPGLNLS
TWVGS DHATNTISGTS MASPHIAGLLAYVSLAPAKDSAYAVADVTPKQLKAALISVATE
GTLTDIPSDTPNLLAWNGGGSANYTKILADGGYKAHNAETTVEDRIGIIIDSAEKAFHKE
LGAIYSEIKDAVSV

>accession|AAF72534.1|Putative tropomyosin [Blattella germanica]
MDAIKKKMQAMKLEKDNAMDRALLCEQQARDANIRAEKAEFEARSLOKKIQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAFEADKKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANLREEEYKQIQIKTLNTRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKICDDLDMTFTELIGN

>accession|AAF72625.1|Allergen Cup s 1 pollen allergen precursor
[Cupressus sempervirens]
MDSPLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTATSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCSNTSVLGDVLSVESIGVEPVHAQDGDITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSGTITISNNHFFNHHKVMMLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

>accession|AAF72626.1|Allergen Cup s 1 pollen allergen precursor
[Cupressus sempervirens]
MDSPLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLEMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCSNTSVLGDVLSVESIGVEPVHAQDGDITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSGTITISNNHFFNHHKVMMLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

>accession|AAF72627.1|Allergen Cup s 1 pollen allergen precursor
[Cupressus sempervirens]
MDSPLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHSCNTSVLGDVLSVESIGVEPVHAQDGDITMRNVT
NAWIDHNSLPDCSDGLIDVTLSSGTITISNNHFFNHHKVMMLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

>accession|AAF72628.1|Allergen Cup s 1 pollen allergen precursor
[Cupressus sempervirens]
MDSPLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCSNTSVLGNVLSVESIGVEPVHAQDGDITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSGTITISNNHFFNHHKVMMLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV
TKRIGCVSTSACANWVWRSTRDAFNGAYFVSSGKTEETNIYNSNEAFKVENGNLAPQLT
KNAGVVA

>accession|AAF72629.1|Allergen Cup s 1 pollen allergen precursor
[Cupressus sempervirens]
MDSPLIAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCAVGFGSSTMGGKGGD
IYTVTSAEDNPVNPTPGTLRYGATREKALWIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSHVILHGLHIHGCSNTSVLGNVLSVESIGVEPVHAQDGDITMRNVT
NAWIDHNSLSDCSDGLIDVTLSSGTITISNNHFFNHHKVMMLGHDDTYDDDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNYDQWNIYAIGGSSNPTILSEGNSFAAPNENYKKEV

TKRIGCVSTSACANWVWRSTRDAFNSGAYFVSSGKTEETNIYTSNEAFKVENGNLAPQLT
KNAGVVA

>accession|AAF72991.1|Putative beta-expansin [*Oryza sativa*]
MASSCLLLACVVAAMVSAVSCGPPKVPVPGPNITAAAYGKQWLEARGTWYGKPKGAGPDDN
GGACGYKIDIDKAPFLGMNSCGNDPIFKDGGKCGSCFEVKCSKPEACSDKPVI IHIITDMNT
EPIAAYHFDLSGHAFGAMAKEGKDEELRKAGIIDMQFRRVRCKYPGETKVTTFHVEKGSNP
NYFAVLVKYVGGDGDVVKVELKEKGSEEWKPLNESWGAIWRIDTPKPLKGPFSLRVTTES
DQKLVANDVIPDNWKANALYKSEIQVD

>accession|AAF75225.1|Putative paramyosin isoform [*Anisakis simplex*]
PRAAGELQMKMSLYEKAVEQKEALARENKKLQDELHEAKEALADANRKLHELDLENARLA
GEIRDLQTALKESDAARREANRAQRLAADLQQLRIEMERRLQEKEEEMEALRKNMQFEI
DRLTAALADAEARMKAEISRLKKKYQAEIAELEMTVDNLNRANIEAQKTIKKQSEQMKIL
QASLEDTQRHLQQTLDQYALAQRKISALSAELEECKVALDNAIRARKQAEVDLEEANVRI
AELVSLTNNLTTIKNKLETELSTVRADLDETTKELHAADERANRALADAARAIEQLHEEQ
EHSKIDALRRSLEEQVKQLVQIQEAEAAALLGGKRVIKLETRIRDLETALDEETRRH
KETQNALRKKDRRIKEVQMQVDEEHKQFVMAQDTADRLLLEKMNIQKRQLGEAESFTMANI
QRVRRYQRELEDAEGRADQAESSLHLIRAKHRSSVVTGRSASASKVYVLEDEQ

>accession|AAF80164.1|Putative pollen major allergen 1-2 [*Juniperus virginiana*]
MASPCLIAFLVFLCAIVSCSDNPIDSCWRGDSNWGQNRMKLADCAVGFSGSSTMGGKGGD
FYTVTSADDNPVNPTPGTLRYGATREKTLWIIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSIVLHGLHIHGCSNTSVLGDVLVSESIGVVPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITIFNNHFFNHHKVMMLGHDDTYDDDLSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDPWNIYAIGGSSNPTILSEGNSTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFNSGAYFVSSGKIEETNIYNSNEAFKVENGNAAAPQLT
KNAGVVA

>accession|AAF80166.1|Putative pollen major allergen 1-1 [*Juniperus virginiana*]
MASPCLIAFLVFLCAIVSCSDNPIDSCWRGDSNWGQNRMKLADCAVGFSGSSTMGGKGGD
FYTVTSADDNPVNPTPGTLRYGATREKTLWIIIFSQNMNIKLKMPLYVAGHKTIDGRGADV
HLGNGGPCLFMRKVSIVLHGLHIHGCSNTSVLGDVLVSESIGVVPVHAQDGDAITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMMLGHDDTYDDDLSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDPWNIYAIGGSSNPTILSEGNSTAPNENYKKEV
TKRIGCESTSACANWVWRSTRDAFNSGAYFVSSGKIEETNIYNSNEAFKVENGNAAAPQLT
KNAGVVA

>accession|CAB96215.1|Allergen profilin [*Hevea brasiliensis*]
MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFPQFKSDEVAAVMKDFDEPGSL
APTGLHLGGTKYMIQGEPEGAVIRGKKGSGGITVKKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLDQGL

>accession|AAF82096.1|Putative antigen 5 precursor [*Glossina morsitans morsitans*]
MNFVLATLSLLILGSAAVGGDYCGLCDNHDAVCMQNVFQSGCPSGAKMIDLNKYQSALLD
AHNKKRNHVAGGESKLRACQMATMKWDSELAKLAEYNVKQCQMNHDCRNTVKFKYAG
QNLAEGRSGGPPPDYRKLIEKAVDKWYEEVKDCNQGYIDSYPMNYRGPAGHFTVMVAE
RNTHVGCASEYTKSNGFQYFLMACNYATTNMEFPIYKSCGSSAQDCKSGKNSKYPNLC
SPNEKYEVENKWKINGVEYH

>accession|CAB96931.1|Putative thioredoxin h [*Triticum aestivum*]

MAASAATATAAAVGAGEVISVHSLEQWTMQIEEANAANKLVVIDFTASWCGPCRIMAPIF
ADLAKKFPAAVFLKVDVDELKSIAEQFSVEAMPTFLFMKEGDVKDRVVGAIKEELTNKVG
LHAAQ

>accession|P81295.1|Putative Pathogenesis-related protein precursor
(Pollen allergen Jun a 3) [Juniperus ashei]
MARVSELAFLLAATLAISLHMQEAGVVKFDIKNQCGYTVWAAGLPGGGKRLDQGQTWTVN
LAAGTASARFWGRTGCTFDASGKGCQTDGDCGGQLSCTVSGAVPATLAEYTSQSDQDYDV
SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVDGGCNSACNVFKTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>accession|AAF86369.1|Allergen major allergen I 18kDa antigen
[Aspergillus fumigatus]
MTWTCINQQLNPKTNKWEDKRLLYNQAKAESNSHHAPLSDGKTGSSYAHWFTNGYDGNK
LIKGRTPIKFGKADCDRPPKHSQNGMGKDDHYLLEFPPTFPDGHDKYKFDKSKNPKEDPGPA
RVIYTYPNKVFVCGIVAHQRGNEGLRLCSH

>accession|AAF86462.1|Allergen Der p II allergen [Dermatophagoides
pteronyssinus]
MYKILCLSLVAAVARDQVDVKCANHEIKKVLVPGCHGSEPCI IHRGKPFQLEAVFEAN
QNTKTAKIEIKASIDGLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENV
VVTVKVMGDDGVLACAIATHAKIRD

>accession|P82534.1|Allergen Nonspecific lipid-transfer protein 1 (LTP 1)
(Major allergen Pru d 3) [Prunus domestica]
ITCGQVSSNLAPCINIVKGGAVPPACCNGIRNVNLLARTTADRRAACNCLKQLSGSIPG
VNPNNAAALPGKCGVNVVYKISASTNCATVK

>accession|CAC00532.1|Putative enolase, isoform 1 [Hevea brasiliensis]
MAITIVSVRARQIFDSRGNPTVEADVKLSDGYLARAAPVSGASTGIYEALERDGGSDYL
GKGVSKAVENVNIIIGPALVKGKPTDQVGDIDNFMVQQLDGTVNEWGWCKQKLGANAILAV
SLAVCKAGAHVKGIPLYEHIANLAGNKNLVLVPAFNVINGGSHAGNKLAMQEFMILPVG
ASSFKEAMKMGAEVYHHLKSVIKKKYQDATNVGDEGGFAPNIQENKEGLELLKTAIAKA
GYTGKVVIGMDVAASEFYGSDQTYDLNFKEENNGSQKISGEALKDLYKSFVAEYPIVSI
EDPFDQDDWAHYAKLTSEIGEKVQIVGDDLLVTNPKRVEKAIKEKACNALLKVNQIGSV
TESIEAVKMSKRAGWGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIIEELGSEAVYAGANFRKPVEPY

>accession|CAC05258.1|Putative Cup a 3 protein [Cupressus arizonica]
VKFDIKNQCGYTVWAAGLPGGGKEFDQGGQTWTVNLAAGTASARFWGRTGCTFDASGKGC
RSGDCGGQLSCTVSGAVPATLAEYTSQSDQDYDVSLVDGFNIPLAINPTNTKCTAPACKA
DINAVCPSELKVDGGCNSACNVLQTDQYCCRNAYVMNCPATNYSKIFKNQCPQAYSYAKD
DTATFACASGTDYSIVFCP

>accession|AAG08987.1|Putative tropomyosin [Haliotis diversicolor]
MDAIKKKMLAMKMEKENAVDRAEQNEQKLRDTEEQKAKIEEDLNNLQKKCANLENDFDNV
NEQLQEAMAKLETSEKRVTEMEQEVSGTTRKITLLEEDLERNEERLQTATERLEEASKAA
DESERGARVLESRLADDERIDQLEAQLKEAKYIAEDAERKYDEAARKLAITEVDLERA
ARLEAAEAKILELEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLLEDELLAEKEKYKAISDELDQTFAEELAGY

>accession|AAG08988.1|Putative tropomyosin [Perna viridis]
MDAIKKKMVAMKMEKKNALDRAEQLEQKLRTEEAKAKIEDDYNLSLVKKNIQTENDYDNC
NTQLQDVQAKYERAQKIQEHEQEIQSLTRKISLLEEGIMKAERFTTASGKLEEASKAA

DESERNRKVLENLNSGNDERIDQLEKQLTEAKWIAEEADKKYEEAARKLAITEVDLERAE
ARLEAAEAKVIDLEEQLTVVGANIKTLQVQNDQASQREDSYEETIRDLTNRLKDAENRAT
EAERTVSKLQKEVDRLDEDELLEKEKYKAISDELDTFAELAGY

>accession|AAG08989.1|Allergen tropomyosin [Chlamys nobilis]
MDAIKKKMQAMKVDRENAQDLAEQMEQKLDKETAKAKLEEFNELQKLTATENNYDTV
NEQLQEANTKLENSKQITQLESDVGGQLRRLLTLEEDYERSEEKLNSTTEKLEEASKAA
DESERNRKVLEGRSNSYEERIDELEKQLETAKNVATDADHKFDEAARKLAITEVDLERAE
TRLEAADAKVLELEEELTVVGANIKTLQVQNDQASQREDSYEETIRDLTSLKDAENRAT
EAERQVVKLQKEVDRLDEDELLAEKERYKAISDDLQTFAEIAGY

>accession|CAC05582.1|Putative pollen major allergen 2 protein [Juniperus
ashei]
MSMKFMAALAFLLALQLIVMAAGEDQSAQIMLSDSTKQYHRSSRNLRKRVHHARHDVAIVF
NVEHYGAVGDGKHDSTDAFEKTWNAACNKL SAVFLVPANKKFVNNLVFYGPCQPHFSFK
VDGTIAAYPDPKWKNSKIWMHFARLTD FNLMTGTVIDGQGNRWSDQCKTINGRTVCND
KGRPTAIKIDFSKSVTVKELTLTNSPEFHLVFGEC DGVKIQGIKIKAPRDSPTDGDIDIF
ASKRFEIEKCTIGTGDDCVAVGTGSSNITIKDLTCGPGHGMSIGSLGKGNRSSEVSFVHL
DGAKFIDTQNGLRIKTWQGGSLASHITYENVEMINAENPILINQFYCTSAACKNQRSA
VKIQDVTFKNIHGTSATTAIQLMCSDSVPCSNIKLSNVFLKLTSGKVATCVNKNANGYY
TNPLNPSCSKSLHPGRTPKELELHQKPTLLMDEKMGASLNSPNCNKCKGCQPCPKL
IIVHPNQPEDYYPQRWVCSCHNKIYNP

>accession|BAA23360.2|Putative alpha subunit of beta conglycinin, partial
[Glycine max]
VEKEECEEGEIPRPRPQHPEREPQQPGEKEEDEDEQPRPIPFPRPQPRQEEHEQREE
QEWPRKEEKRGKGESEEEDEDEDEEQDERQFPFPRPPHQKEERKQEEDEDEEQRESEES
EDSELRRHKNKNPFLFGSNRFETL FKNQYGRIRVLQRFNQRSPQLQNLRDYRILEFNKSP
NTLLLPHADADYLIVILNGTAILSLVNDDRDSYRLQSGDALRVPSGTTYVVPDNDNE
NLRLITLAI PVNKPGRFESFFLSSTEAQQSYLQGF SRNILEASYDTKFEEINKVLF SREE
GQQQGEQRLQESVIVEISKEQIRALSKRAKSSSRKTISSEDKPFNLSRDPIYSNKLGKF
FEITPEKNPQLRDLDFLSIVDMNEGALLLPHFN SKAIVILVINEGDANIELVGLKEQQQ
EQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSNLNF FAIGINAENNQRNFLAG
QDNVISQIP SQVQELAFPGSAQAVEKLLKNQRESYFVDAQPKKKEEGNKGRKGPLSSILR
AFY

>accession|BAA74452.2|Putative alpha' subunit of beta-conglycinin,
partial [Glycine max]
VEEEEECEEGQIPRPRPQHPERERQHGKEEDEGEQPRPFPRPRPQPHQEEHEQKEE
HEWHRKEEKHGKGESEEEQDEREHPRPHQPHQKEEEKHEWQHKQEKHQGKESEEEEDQD
EDEEQDKESQESGESQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVRVLQRFNKRSQQ
LQNLRDYRILEFNKSPNTLLLPHHADADYLIVILNGTAILTLVNDDRDSYNLQSGDALR
VPAGTTYVVPDNDENLRMITLAI PVNKPGRFESFFLSSTQAQQSYLQGF SKNILEASY
DTKFEEINKVLFGRREGQQQGEERLQESVIVEISKQIRELSKHAKSSSRKTISSEDKPF
NLSRDPIYSNKLGLLFEITPEKNPQLRDLDFVFLSVVDMNEGALFLPHFN SKAIVVLVIN
EGEANIELVGIKEQQQRQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSDLNFFA
FGINAENNQRNFLAGSKDNVISQIP SQVQELAFPGSAKD IENLIKSQSESYFVDAQPQQK
EEGNKGRKGPLSSILRAFY

>accession|CAC09234.1|Allergen Der p 7 allergen-like [Dermatophagoides
pteronyssinus]
MMKLLLI AAAFVAVSADPIHYDKITEEINKAVDEAVAAIEKSETFDPMKVPDHSKFER
HIGIIDLKGLDMRNIQVRGLKQMKRVGDANVKS EDGVVKAHLLVGVHDDVVSMEYDLAY
KLGDLHPNTHVISDIQDFVVELSLEVSEEGNMTLTSFEVRQFANVNHIGGLSILDPIFA

VLSDVLTALFQDTVRAEMTKVLAPAFKKELELNNO

>accession|AAF80379.2|Allergen acidic Cyn d 1 isoallergen isoform 1 precursor [Cynodon dactylon]

AMGDKPGPNITATYGDKWLDKATFYGSDPRGAAPDDHGGACGYKDVKAPFDGMTGCGN
EPIFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIAAYHFDLSGKAFGAMAKKG
EEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSSPNYLALLVKYAAGDGNIVGVDIK
PKGSDEFLLPMKQSWGAIWRMDPPKPLKGPFTIRLTSESGGHVEQDDVIPEDWKPDTVYKS
KIQF

>accession|BAB15802.1|Putative glycinin A3B4 subunit [Glycine max]

MGKPFFTLSLSSLCLLLLSSACFAITSSKFNECQLNNLNALEPDHRVESEGGLIETWNSQ
HPELQCAGVTVSKRTLNRNGLHLSYSPYPQMIIVVQKGGAIGFAFPGCPETFEPQQQS
SRRGSRSQQLQDSHQKIRHFNEGDVLVIPPVGYWYNTGDEPVVAISLLDTSNFNQNL
DQNPRVLYLAGNPDIEHPETMQQQQQKSHGGRKQGQHQQQEEGGSVLSGFSKHFLAQS
FNTNEDTAEKLRSPDDEKQIVTVEGGLSVISPKWQEQEDEDDEDEEYEQTPSYPPRRP
SHGKHEDDEDEDEEEDQPRPDHPPQRPSRPEQQEPRGRGCQTRNGVEENICTMKLHENIA
RPSRADFYNPKAGRISTLNSLTLPALRQFGLSAQYVVLYRNGIYSPHWNLNANSVIYVTR
GKGRVRVNCQGNVFDGELRRGQLLVVPQNFVVAEQGGEQGLEYYVFKTHHNAVSSYIK
DVFRAIPSEVLNSYNLQSQVRQLKYQGNNGPLVNP

>accession|AAG22740.1|Putative allergenic isoflavone reductase-like protein Bet v 6.0102 [Betula pendula]

MAHKSILIIIGGTGYIGKFIVEASAKSGHPTFALVRESTVSDPVKGLVEKFKGLGVTL
HGDLVDHESLVKAFKQVDVIVSTVGHLLQADQVKIIAAIKEAGNIKRFFPSEFGNDVDRV
HAVEPAKTAFATKAEIRRKTEAEGIPYTYVSSNFFAGYFLPTLAQPGLTSPPREKVVIFG
DGNARAVFNKEDDIGTYTIRAVDDPRTLKIVYIKPAKNIYSFNEIVALWEKKIKGTLEK
IYVPEEKLLKDIQESPIPIINVILAINHSVFKGDHTNFEIEASFGVEASELYPDVKYTTV
EYLLQQFV

>accession|AAG23840.1|Putative oleosin [Sesamum indicum]

MADRDRPHPHQIQVHPQHRYEGGVKSLLPQKGPSTTQILAIITLLPISGTLCLAGIT
LVGTLIGLAVATPVFVIFSPVLVPAAILIAGAVTAFLTSGAFGLTGLSSLSWVLSFRRA
TGQGPLEYAKRGVQEGTLYVGEKTKQAGEAIKSTAKEGGREGTART

>accession|CAC13961.1|Putative IgE-binding protein MnSOD [Hevea brasiliensis]

QTFSLPDLPYDYGALPAISGEIMQLHHQKHQTYITNYNKALEQLNDAIEKGDAAVVK
LQSAIKFNGGGHVNSIFWKNLAPVREGGELPHGSLGWAIDDFGSLEKLIQLMNAEGA
ALRGSGWVWLALDKELKLVVETTANQDPLVTKGPTLVPLLGIDVWEHAYYLQYKNVRPD
YLKNIWKVMNWKYASEVYAKECPSS

>accession|CAC14917.1|Putative triosephosphat-isomerase [Triticum aestivum]

MGRKFFVGGNWKCNVTVEQVESIVNTLNAGQIASTDVVEVVVSPPYVFLPTVKGLRPEI
QVAAQNCVWKKGGAFTGEVSAEMLVNLGVPWVILGHSERRSLMGESSEFVGEKVAYALAQ
GLKVIACVGETLEQREAGSTMAVVAEQTKAIADKIKDWTNVVAYEPVWAIIGTKVASPA
QAQEVHANLRDWLKTNVSPEVAESTRIIYGGSVTGASCKELAAQPDVDGFLVGGASLKPE
FIDIINAAVKSA

>accession|AAG31026.1|Allergen subtilisin precursor [Bacillus licheniformis]

MMRKKSFWLGMFTAFLVFTMAFSDSASAAQPAKNVEKDYIVGFKSGVKTASVKKDIIKE
SGGKVDKQFRIINAAKAKLDKEALKEVKNPDVAYVEEDHVAHALAQTVPYGIPLIKADK

VQAQGFKGANVKVAVLDTGIQASHPDLNVVGGASVAGEAYNTDGNGHGHVAGTVAALD
NTTGVLGVAPSVSLYAVKVLNSSGSGSYSGIVSGIEWATTNGMDVINMSLGGASGSTAMK
QAVDNAYAKGVVVVAAAAGNSGSSGNTNTIGYPAKYDSVIAVGAVDSNSNRASFSSVGAEL
EVMAPGAGVYSTYPTNTYATLNGTSMASPHVAGAAAALILSKHPNLSASQVRNRLSSTATY
LGSSFYYGKGLINV

>accession|AAG35601.1|Putative profilin 5 [Zea mays]
MSWQAYVDDHLLCDIEGQHLASAAAIIGHDGSVWAQSENFPELKPEEVAGMIKDFDEPGTL
APTGLFVGGTKYMVIQGEFVIRGKKGTTGGITIKKTGMSLIIGIYDEPMTPGQCNMVE
RLGDYLIEQGF

>accession|1G5U_A|Allergen Chain A, Latex Profilin Hevb8 [Hevea
brasiliensis]
MSWQTYVDDHLMCDIDGHRLTAAAIIGHDGSVWAQSSSFQFKSDEVAAVMKDFDEPGSL
APTGLHLGGTKYMVIQGEFVIRGKKGSGGITVKTGQALIIGIYDEPLTPGQCNMIVE
RLGDYLLDQGL

>accession|1QNX_A|Allergen Chain A, Ves V 5, An Allergen From Vespula
Vulgaris Venom [Vespula vulgaris]
AEAEFNNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLTKQEKQDILKEHNDFRQKI
ARGLETRGNPQPAPAKNMKNLWVNDLAYVAQVWANQCQYGHDTCDRVAKYQVQGNVAL
TGSTAACYDDPVKLVKMWEDVVDYNPKKFKSGNDFLKTGHYTMVWANTKEVGCOSIKY
IQEKWHKHLYVCNYGPSGNFKNEELYQTK

>accession|1QMR_A|Allergen Chain A, Birch Pollen Allergen Bet V 1 Mutant
N28t, K32q, E45s, P108g [Betula pendula]
GVFNYETETTSVIPAARLFKAFILDGDTLFPQVAPQAISSVENISGNGGPGTIKKISFPE
GLPFKYVKDRVDEVDHTNFKNYSVIEGGPIGDTLEKISNEIKIVATGDGGSILKISNKY
HTKGDHEVKAEOVKASKEMGETLLRAVESYLLAHS DAYN

>accession|AAG40329.1|Allergen major allergen variant Cor a 1.0402
[Corylus avellana]
MGVFSYEDEATSVIPARLFKSFVLDADNLI PKVAPQHFTGAENLEGNGGPGTIKKITFA
EGSEFKYMKHKVVEEIDHANFKYCYSIIIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASISEEEIKAGKEKAAGL FKAVEAYLLAHPD TYC

>accession|AAG40330.1|Allergen major allergen variant Cor a 1.0403
[Corylus avellana]
MGVFCYEDEATSVIPARLFKSFVLDADNLI PKVAPQHFTGAENLEGNGGPGTIKKITFA
EGSEFKYMKHKVVEEIDHANFKYCYSIIIEGGPLGHTLEKISYEIKMAAAPHGGGSILKITS
KYHTKGNASISEEEIKAGKEKAAGL FKAVEAYLLAHPD TYC

>accession|AAG40331.1|Allergen major allergen variant Cor a 1.0404
[Corylus avellana]
MGVFSYEDEATSVIPARLFKSFVLDADNLI PKVAPQHFTSAENLEGNGGPGTIKKITFA
EGNEFKYMKHKVVEEIDHANFKYCYSIIIEGGPLGHTLEKIPYEIKMAAAPHGGGSILKITS
KYHTKGNASINEEEIKAGKEKAAGL FKAVEAYLLAHPD AY C

>accession|AAG42254.1|Putative pollen allergen Poa p 5 [Poa pratensis]
MAVQKYTVALFLTVALVAGPAASYAADAGYAPATPAAAAGAAAGKITPTQEQLMEDINVG
FKA AVAAAAGAPPADKFKTFQA AF SASVEASA AKLNAAQAPGFVSHVAATSDATYKAAVG
ATPEAKFDSFVAAFTEALRIIAGVLKVHAVKPI TEETGAAKIPAGEQQI IDKIDAAFKVA
ATAANAAPANDKFTVFEAAFNNAI KE STGGAYD TYKSI PSLEAAVKQAYAATIAAAPEVK
FAVFKAA LTKAITAMA EVQKVSKPVAGAAATVAAGAAATAATGAATGAAGAAATGAATVSAGG

YKV

>accession|AAG42255.1|Allergen pollen allergen Hol 1 5b [Holcus lanatus]
MAVQKYTVLFLTLVALVAGPAASYAADAGYAPTTTPAAAGAAAGKITPTQEQLMEDINVG
FKAAVAAAAGAPPADKFKTFQAAFSAVEASAACLNAQAQPGFVSHVAATSDATYKAAVG
ATPEAKFDSFVAAFTEALRVIAGVLKVHAVKPIITEEIGAAKIPAGELQIIDKIDAAFKVA
ATAANAAPANDKFTVFEAAFNNAIKESTGGAYDITYKSIPSLEAAVKQAYAATIAAAPEVK
FAVFKAAALTKAITAMAEVQKVKSPVAGAATAATGAATGAAGAATGAATVSAGGYKV

>accession|AAG42802.1|Allergen lipophilin AL [Oryctolagus cuniculus]
MKLLVPLLLVALALGCYEADAAACPAFVLDSVGFVDFPKPVYRQKLAKYDAPPEAVEAKL
QVKECTDEIDKGRVLIAAVLTIVKECAL

>accession|AAG42806.1|Allergen lipophilin CL2 [Oryctolagus cuniculus]
MKVVMVLLLAALPLYCYAGSGCVLLESVVEKTIDPSVSVVEEYKADLQRFIDTEQTEAAVE
EFKECFLSQSNETLANFRVMVHTIYDSLCAAY

>accession|AAG44478.1|Putative vacuolar serine protease [Penicillium
oxalicum]
MKGLLSLTLPLLAASPTWSETIHNGAAPLISSTSAKEIPDSYIVVFKKHVGASAASAH
HSWVQDIHSDNVRMELKKRSLFGFSEPYLGVKHTFHVAGSLMGYAGHFHEDVIEQVRRH
PDVEYIEKDSEVHHFEDPAIEKNAPWGLARISHRDSLFSFGSFNKYLYAEDGGEGVDAYVI
DTGTNVHDVDFEGRASWGTKTIPQGDQDVGNGHGTHCSGTIAGKKYGVAKKANVYAVKVL
RSNGSGTMSDVVKGVWAAEAHIIKSKAAKDGKAKGFKGSVANMSLGGGSSRTLDLAVNA
AVDAGMHFAVAAGNDNADACNYSAAAEEKAVTVGASTLADERAYFSNYGKCTDIFAPGLN
ILSTWIGSKYAVNTISGTSMASPHIAGLLAYYVSLQPASDSAYAVEEITPKKLDALITI
ATSGALSDIPSDTPNLLAWNGGGSSNYTEIVSKGGYKAGASESMKKHLDLVGKVEEVIA
KEQKVLSELGAIYSEIKDAVSA

>accession|AAG44480.1|Putative vacuolar serine protease [Penicillium
citrinum]
DSPSVEKNAPWGLARISHRDSLFSGTFNKYLYAEDGGEGVDAYVIDTGTNTDHDVDFEGR
NWGKTIPEGDEDVDGNGHGTHCSGTIAGKKYGVAKKANVYAVKVLRSNGSGTMSDVVKGV
EWAAEAHIIKAKAGKKGFKGSVANMSLGGGSSRTLDLAVNAAVDAGIHFVAAGNDNADA
CNYSAAAENAVTVGASTLADERAYFSNYGKCTDIFAPGLNILSTWIGSKYAVNTISGTS
MASPHIAGLLAYYVSLQPSDDSAFAVEKITPKKLEALITVATSGALTDIPSDTPNLLAW
NGGGSSNYTDIVAQQGYKAGSTVEDFEEHIIKLVNHAAEVMHKELGAIYSEIKDAVAV

>accession|BAB21489.1|Allergen Bet vI jap1 [Betula platyphylla]
MGVFNYTEATSVIPAAARLFKAFILDGDKLVKVPVAPQAISSVENIEGNGGPGTIKKINFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>accession|BAB21490.1|Allergen Bet vI jap2 [Betula platyphylla]
MGVFNYTEETTSVIPAAARLFKAFILDGDNLFKVPVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDGVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>accession|BAB21491.1|Allergen Bet vI jap3 [Betula platyphylla]
MGVFNYTEETTSVIPAAARLFKAFILDGDNLFKVPVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFEYVKDRVDEVDHTNFKYNYSVIEGGPVGDTLEKISNEIKIVATPDGGCVLKISNK
YHTKGNHEVKAEQVKASKEMGETLLRAVESYLLSHSDAYN

>accession|AAK01235.1|Putative minor allergen hazelnut profilin [Corylus avellana]
MSWQTYGDEHLMCEIEGNRLAAAAIIGHDGSVWAQSSTFPQLKPEEITGVMNDFNEPGSL
APTGLYLGGTKYMVIQGEFPAVIRRKKGPGGVTVKKTSQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>accession|AAK01236.1|Putative minor allergen hazelnut profilin [Corylus avellana]
MSWQAYGDEHLMCEIEGNRLAAAAIIGHDGSVWAQSSTFPQLKPEEITGVMNDFNEPGSL
APTGLYLGGTKYMVIQGEFPAVIRGKKGPGGVTVKKTSQALIIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>accession|AAK09361.1|Allergen phospholipase A-2 precursor, partial [Apis cerana cerana]
IIYPGTLWCCHGNVSSGPNELGRFKHTDACCRTDHMCPCDMSAGESKHGLTNTASHTRLS
CDCDDTFYDCLKNSGDKISSYFVGKMYFNLIIDTKCYKLEHPVTGCGERTEGRCLRYTVDK
SKPKAYQWFDLRKY

>accession|AAD55792.2|Putative male-specific submandibular protein MSP precursor [Mesocricetus auratus]
MVKFLLLALALGVSCAQHQNLVSPSEVDGKWHSLYIAADNKSXVSEGGPLRVYVVKHLEC
SDECQFTTIKFYTKVENVCQEHRVVGKKGDKGYITDFSGQNYFHVVEKADDTMTTFHNVN
VDDSGKTNVILVVGKGESSIEQKQRFEKTAEKYDIPKENIEHLVTTDTCNQ

>accession|AAK15087.1|Putative 11S globulin [Sesamum indicum]
MALTSLLSFFIVVTLIRGLSAQLAGEQDFYWDLQSQQHKLQARTDCRVERLTAQEPT
IRFESEAGLTFEWDNRNQQFECAGVAARNVIQPRGLLLPHYNNAPQLLYVVRGRGIQGT
VIPGCAETFERDTQPRQDRRRRFMDRHQKVRQFRQGDILALPAGLTLWFYNNNGGEPLITV
ALLDTGNAANQLDQTFRHFFLAGNPQGGRSYFGRPQTEKQQGETKNI FNGFDDEILADA
FGVDVQTARRLKGQDDLGRIVRAERLDIVLPGEERWERDPYSGANGLEETLCTAKL
RENLDENPARADVYNPHGGRISLNSLTLVLSWLRLSAEKGVLYRNLVAPHWNLNAHSI
IYITRGSGRFQVVGHTGRSVFDGTVREGQLIIVPQNYVAVAKRASQDEGLEWISFKTNDNA
MTSQLAGRLSAIRAMPPEEVMYAVSRDEARRLKYNREESRVFSSTSRYSWPRSSRPM
YMPKPFYVLDVIKSM

>accession|AAK15088.1|Putative 2S albumin [Sesamum indicum]
MAKKLALAAVLLVAMVALASATYTTTVAIDDEANQQSQCRQLQGRQFRSCQRYL
SQGRSPYGGEEDEVLEMSTGNQQSEQLRDCQQLRNVDERCCEAIRQAVRQQQEGGY
QEGSQQVYQRARDLPRRCNMRPQQCFRVIFV

>accession|AAK15089.1|Putative 7S globulin [Sesamum indicum]
MSCGRLCLVLFALLLASAVVASESKDPELKQCKHQCKAQQQISKEQKEACIQACKEYIR
QKHQGEHGRGGDILEEEVWNRKSPIERLRECSRGEQQHGEQREECLRRCEEYQREKQ
RQDDNPTDPEKQYQQCRLQCRQGGGFSREHCERRREEKYREQQGREGGRGEMYEGR
EREEQEEQGRGRIPYVFDQHFITGFRTQHGRMRVLQKFTDRSELLRGIENYRVAILEA
EPQTFIVPNHWAESVVFVAKGRGTISLVRQDRRESLNIKQGDILKINAGTTAYLINRDN
NERLVLAKLLQPVSTPGEFELFFGAGGENPESFFKSFSDILEAAFNTRRDLRQIFGQQ
RQGVIVKASEEQVRAMSRHEEGGIWPFGGESKGTINIYQQRPHSNQYQLHEVDASQYR
QLRDLTLVSLANITQGAMTAPHYNSKATKIALVVDGEGYFEMACPHMSRSRGSYQGETR
GRPSYQVRASRLTRGTVVIIPAGHPFVAVASSNQLQVLCFEVNANNNEKFPLAGRRNV
NQLEREAKELAFGMPAREVEEVSRSQQEEFFFKGPRQQQGRADA

>accession|AAB32652.2|Allergen main olive allergen [Olea europaea]
QVYCDTCRAGFITELSEFIPGASVRLQCKEKKNGDITFTEVGYTRAEGLYSMLVERDHKN

EFCEITLISSGSKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQVY
NKLGMYPNNM

>accession|AAK25823.1|Allergen group V allergen Phl p 5 precursor [Phleum
pratense]

PISVTAPPPQLPRPPATPPPPPPPPQLGASPYKLGPSPKARSERPAIVPPADKYRTFVATF
GAASNKAFAEGLSGEPKGAESSKAALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLS
EALRIIAGTLEVHAVKPAAEVVKVIPAGELQVIEKVDAAFVAATAANAAPANDKFTVFE
AAFNNAIKAGTGGAYESYKFI PALEAAVKQAYAATVATAPEVKYTVFETALKKAITAMSE
AQKAAKPAAAATATATS AVGAPTGATTAAAGGYKV

>accession|AAK28533.1|Putative lipid transfer protein precursor [Corylus
avellana]

MGSLKLVCAVLLCMMVAAPVARASLTCPQIKGNLTPCVLYLKNGGVLPSPSCCKGVRAVND
ASRTTSDRQSACNCLKDTAKGIAGLNP NLAAGLP GKCGVNIPYKISPSTNCNNVK

>accession|AAK39511.1|Allergen paramyosin-like allergen [Dermatophagoides
farinae]

MNKKRDSELAKLRKLLLEDVHIESEETAHHLRQKHQAAIQEMQDQLDQLQKAKNKSDEKQ
KFQAEVFELLAQLETANKEKLTALKNVEKLEYTVHELNIKIEEINRTVIELTSHKQRLSQ
ENTELIKEVHEVKLQLDNANHLKTQIAQQLEDTRHRLEEEERKRASLENHAHTLEVELES
LKVQLDEESEARLELERQLTKANGDAASWKSKEYAE LQAHADVEEELRRKMAQKISEYEE
QLEALLNKCSSLEKQKSR LQSEVEVLIMDLEKATRHAQQLEKRV AQLEKINLDLKNKLEE
VTMLMEQAQKELRVKIAELQKLQHEYEKLRDQDQLARENK KLTDDLAEAKSQLNDAHRR
IHEQEIEIKRLENERDELSAAYKEAETLRKQEEAKNQR LIAELAQVRHDYEKRLAQKDEE
IEALRKQYQIEIEQLNMRLAEAEAKL KTEIARLKKKYQAQITELESLDAANKANIDLQK
TIKKQALQITELQAHYDEVHRQLQQAVDQLGVTQRR CQALQAELEEMRIALEQANRAKRQ
AEQLHEEA VVRVNELTTINVN LASAKSLESEFSALQADYDEVHKELRISDERVQKLTIE
LKSTKDLLIEEQERLVKLETVKK SLEQEVRTLHVRIEEVEANALAGGKRVI AKLESRIRD
VEIEVEEERRRHAETDKMLRKKDHRVKELLLQ

>accession|AAK49451.1|Putative enolase [Aspergillus fumigatus]

MPISKIHARSVYDSRGNPTVEVDVATETGLHRAIVPSGASTGQHEAHEL RDGDKTQWGGK
GVLKAVKNVNETIGPALIKENIDVKDQSKVDEFLNKLDGTANKSNL GANA I LGVSLAVAK
AGAAEKGVPLYAHISDLAGTKKPYVLPV PPFQNV L NGGSHAGGRLAFQEFMIVPDSAPSF S
EALRQGAEVYQKLKALAKKKY GQSAGNVGDEGGVAPDIQTAE EALDLITEAIEQAGYTGK
IKIAMDVASSEFYKADVKKYDLDFKNPESDPSKWLTYEQLADLYKSLAAKYP IVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPGRIKKAIE LKSCNALLLKV NQIGTLTESIQA
AKDSYADNWGMVMSHRSGETEDVTIADI AVGLRSGQIKTGAPCRSERLAKLNQILRIEE E
LGENTVYAGSKFR TAVNL

>accession|AAK51201.1|Putative enolase [Penicillium citrinum]

MPIAKVHARSVYVSRGNPTVEVDVVTETGLHRAIVPSGASTGQHEAHEL RDGDKAKWGGK
GVLKAVKNVNETIGPALIKENIDVKDQAKVDEFLNKLDGTANKGNL GANA I LGVSLAIAK
AAA AEKGVPLYVHISDLAGTKKPYVLPV PPFQNV L NGGSHAGGRLAFQEFMIVPDTAESFS
EGLRQGAEVYQKLKALAKKKY GQSAGNVGDEGGVAPDIQTAE EALDLITEAIEQAGYTGK
ISIAMDVASSEFYKTD AKKYDLDFKNPDSPTKWLTYEQLADLYKSLAAKYP IVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPLRIKKAIE LKSCNALLLKV NQIGTLTESIQA
AKDSYADNWGMVMSHRSGETEDVTIADI AVGLRSGQIKTGAPAR SERLAKLNQILRIEE E
LGENAIYAGKNFR TSVNL

>accession|AAK54834.1|Putative profilin [Musa acuminata]

MSWQAYVDDHLLCDIDGQCLTAAAI VGH DGSVWAQSDAF PQC KPEEIAAIMKDFDEPGSL
APTGLYLGGTKY MVIQGE PGAVIRGKKGSGGV TIKKTNLALI IGIYNEPMT PGQCNM VVE

RLGDYLFQGF

>accession|AAK56124.1|Putative beta-expansin 1 [Zea mays]
MGSLVNNIMVVGAVLAALVAGGSCGPPKVPVPGPNITTNNGKWLARATWYGQPNGAGAP
DNGGACGIKVNLPYPYSGMTACGNVPIFKDGGKGCSCYEVRCCKEPECSGNPVTVYITDM
NYEPIAPYHFDLSGKAFGLAKPGLNDKIRHCGIMDVEFRRVRCCKYPAGQKIVFHIEKGC
NPNYLAVLVKYVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPFSSIRLTS
ESGKKVIAKDVIPANWRPDAVYTSNVQFY

>accession|AAG44693.2|Putative vacuolar serine protease [Penicillium
chrysogenum]
MKGFLSLTLLPLLVAASPVAVNSIHNDAAPISSMTSKDIPDSYIVVFKKHVDPSASAH
QSWLQEVHTAHTGRMELKKRSLFGDFEAFMGLKHTFHIAGSLLGYAGHFHEDVIEQIRR
HPDVDYIEKDSEVRTMSEGSVEKNAPWGLARISHRESLSFGNFNKYLYAEEGGEGVDAYV
IDTGANVKHVFDEGRANWGKTIPQGDADDEDGNHGTHCSGTIAGKKFGVAKKANVYAVKV
LRSNGSGTMSDVVKGVEWAAEAHIKSKKGDKKFKGGSVANMSLGGSSRTLAVNAAVD
AGIHFAVAAGNDNADACNYSAAAIAITVGAATLADERAYFSNYGKCTDIFAPGLNLS
TWVGS DHATNTISGTSMA SPHIAGLLAYVSLAPAKDSAYAVADVTPKQLKAALISVATE
GTLTDIPSDTPNLLAWNGGGSANYTKILADGGYKAHNAETTVEDRIGGIIDSAEKAFHKE
LGAIYSEIKDAVSA

>accession|AAK58415.1|Putative cysteine protease precursor [Blomia
tropicalis]
IPANFDWRQKTHVNPPIRNQGGCGSCWAFWAASSVAETLYAIHRHQNIILSEQELLDCTYHL
YDPTYKCHGCQSGMSPEAFKYMKQKGLLEESHYPYKMKLNQCQANARGTRYHVSSYNSLR
YRAGDQEIQAAIMNHGPVVIYIHGTEAHFRNLRKGI LRGAGYNDAQIDHAVVVLVWGWTQN
GIDYWIVRTSWGTQWGDAGYGFVERHHNSLGINNYPIYASL

>accession|AAK58515.1|Allergen beta-1,3-glucanase-like protein [Olea
europaea]
MAANVQTSSLLFLVFLLLQNFYSANSQSFLGVNYGQLSDNLP SLQATVNLLKSTTIQKVR
LFGAEPAVIKAFANTGVEIVIGFDNGDIPTLASNPVNASQFVKS NVMSFY PASNIIAITV
GNEVLTSGDQKLI S QLLPAMQNVQNALNAASLGGKVKVSTVHAMAVLSQSYPPSSGVFNP
GLGDTMKALLQFQSANDAPFMISPYFYFAYKNQPTPDTLAFCLFQPNAGQVDSGNHGKYT
NMFDAQVDAVHSALNAMGFKDIEIVVAETGWPHGGDSNEVGP SLDNAKAYVGNLINHLKS
KVGTPMLPGKSIDTYLFSLYDEDKKTGASSEKYFGLFKPDGSTTYDVGLLKNTQNPTTPA
TPTPTPKAAGSWCVPKPGVSDDQLTGNINYACGQGIDCGPIQPGGACFEPNTVKAHAAYV
MNLYYQSAGRNSWNCDFSQTATLTNTNPSYGACNFPSGSN

>accession|O04004.1|Putative Nonspecific lipid-transfer protein precursor
(LTP) (Pollen allergen Amb a 6) (Amb a VI) (Allergen Ra6) [Ambrosia
artemisiifolia]
MDCIRILWSVAVGLLLVSWRPTMFAASPTCDTVQNILAPCAGFLTGTGQEPSKACCTGVNNL
NNSRKTAKDRVAVCNCIKELTKSIAYPDKRMP LLSTKCGVKPDFPAVDKNLDCSKLPV

>accession|CAC41633.1|Putative plantain pollen major allergen, Pla 1
1.0101 [Plantago lanceolata]
TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGA QVQLDCKDDSKKVIYSIGGETDQD
GVYRLPVVGYHEDCEIKLVKSSRPDCSEIPKLAKGTIQT SKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>accession|CAC41634.1|Putative plantain pollen major allergen, Pla 1
1.0102 [Plantago lanceolata]
TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGA QVQLDCKDDSKKVIYSIGGETGQD

GVYRLPVVGYHEDCEIKLVKSSRPDCSEIPKLAKGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>accession|CAC41635.1|Putative plantain pollen major allergen, Pla 1
1.0103 [Plantago lanceolata]
TQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAGAQQVQLDCKDDSKKVIYSIGGETGQD
GVYRLPVVGYHEDCEIKLVKSGRPDCSEIPKLAKGTIQTSKVDLSKNTTITEKTRHVKPL
SFRAKTDAPGC

>accession|AAK62278.1|Putative group 5 allergen precursor [Dactylis
glomerata]
MAVQKYTVALFLAVVLVAGPVASYAADAGYTPAAAATPATAGGKAMTEEQTLIEDVNAGF
KAAVAAAASSAPPADKFKTFEATFTAACKANIAAAAATKVPLFVAKLDAAYAVAYKTATGPT
PEAKYDAFVAALTEALRVIAGALEVHAVKPAEEVPAAKIPAGELQIVDKIDAAYKIAAT
AANAAPANDKFTVFEGAFNKAIKESTGGAYESYKFIPTLEAAVKQAYAATVAAAPEVKYA
VFEAALTKAITAMSEAQKVATPAAVATGAATAAASAATGAATAAAGGYKV

>accession|P92918.1|Allergen Major allergen Api g 2 (Api g 1.0201) [Apium
graveolens]
MGVQKTVVEAPSTVSAEKMYQGFLDMDTVFPKVLPLQLIKSVEILEGDGGVGTVKLVHLG
EATEYTTMKQKVDVIDKAGLAYTYTTIGGDILVDVLESVVNEFVVVPTDGGCIVKNTTIY
NTKGDVLPEDKIKEATEKSALAFKAVEAYLLANLQFLA

>accession|Q9HDT3.2|Putative Enolase (2-phosphoglycerate dehydratase) (2-
phospho-D-glycerate hydro-lyase) (Major allergen Alt a 11) (Alt a XI)
[Alternaria alternata]
MTITKIHARSVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKSKWGGK
GVTKAVANVNDTIAPALIKEKLDVKDQSAVDAFLNKLDTTNKTNLGANAILGVSMIAIAK
AAAEEKGVPLYAHISDLAGTKKPYVLPVFPQNVLNNGGSHAGGRLAQEFMIVPCEAPTF
EAMRQGAEVYQKLKALAKKTYGQSAGNVGDEGGVAPDIQTAEALDLITKAIIEEAGYTGK
IKIAMDVASSEFYKADEKKYDLDFKNPDSKSKWLTYEQLAEMYKSLAEKYPIVSIEDPF
AEDDWEAWSYFFKTYDQIVGDDLTVTNPEFIKKAIELKSCNALLLKVNQIGTITEAIQA
AKDAFGAGWGMVSHRSGETEDVTIADIVVGLRSGQIKTGAPARSERLAKLNQILRIIEE
LGDNAVYAGNNFRTAVNL

>accession|Q9LEI9.1|Putative Enolase 2 (2-phosphoglycerate dehydratase 2)
(2-phospho-D-glycerate hydro-lyase 2) (Allergen Hev b 9) [Hevea
brasiliensis]
MAITIVSVRARQIFDSRGNPTVEADVKLSDGYLARAAPRGASTGIYEALERDGGSDYL
GKGVSKAVENVNIIIGPALVGKDPDQVGDIDNFMVQQLDGTVNEWGWCKQKLGANAILAV
SLAVCKAGAHVKGIPLYKHVANLAGNKNLVLVPAFNVINGGSHAGNKLAMQEFMILPVG
ASSFKEAMKMGAEVYHHLKSVIKKYGQDATNVGDEGGFAPNIQENKEGLELLKTAIAKA
GYTGKVVIGMDVAASEFYGSDKTYDLNFKEENNGSQKISGDVLDLYKSFVTEYPIVSI
EDPFDQDDWEHYAKLTSEIGVKVQIVGDDLLVTNPKRVEKAIKEKACNALLLKVNQIGSV
TESIEAVKMSKRAGWGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERLAKYNQL
LRIIEELGAEAVYAGANFRTPVEPY

>accession|P78983.2|Putative Heat shock 70 kDa protein (Allergen Alt a 3)
[Alternaria alternata]
KTNKIVITNDKGRLSKEEIERMLAEAEKYKAEDEAEAAARISAKNALESYAYSLRNTLSDS
KVDEKLDAGDKQLTAEIDKTVQWLDDNQTATKDEYESQQKELEGVANPIMMKFYGAGGE
GGMPGGMPGGGMPGGAPGGAAGDDGPTVEEVD

>accession|Q92260.1|Putative Heat shock 70 kDa protein (Allergen Pen c 19) [Penicillium citrinum]
AYLGGTVNNAVITVPAYFNDSQRQATK DAGLIAGLNVLRINEPTAAAIAYGLDKKTEGE
RNVLIFDLGGGTFDVSLLTIEEGIFEVKSTAGDTHLGGEDFDNRLVNHVNEFKRKHKKD
LTTNARALRRLRTACERAKRTLSSAAQTSIEIDSLFEGIDFYTSITRARFEELCQDLFRG
TMEPVERVLRLDAKIDKSSVHEIVLVGGSTRIPKIQKLVSDFFNKDANKSINPDEAVAYGA
AVQAAILSGDTSSKSTNEILLLDVAPLSLGIETAGGVMTPLIKRNTTIPTKKSETFSTYS
DNQPGVLIQVFEGERARTKDNLLGKFEELTGIPPAPRGVPEVTFDLDANGIMNVSASE
KGTGKSNKITITNDKGRLSKEEIERMLAEAEKYKAEDAEASRIQAKNGLESYAYS LKNT
ITEGKLQMSDDDKKIEDEKISEIISWLDNNTAETAEKDEYESQQKELEAIANPIMQAAYGAA
GGAPPQQRADGETEKKDEEELD

>accession|Q9M5X7.1|Allergen Non-specific lipid-transfer protein precursor (LTP) (Allergen Mal d 3) [Malus x domestica]
MASSAVTKLALVVALCMAVSVAHAITCGQVTS LAPCIGYVRS GGAVPPACNGIRTING
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNPYKISTSTNCATVK

>accession|P82971.1|Putative Phospholipase A2 (Phosphatidylcholine 2-acylhydrolase) (Allergen Bom t 1) [Bombus terrestris]
IIFPGTLWCGNGNLANGTNQLGSKWETDSCCRTHDMCPDLIEAHGSKHGLTNAADYTRLS
CECDEEFRRCLHNSGDTVSA GFVGRTYFTVLHTQCFRLDYPIVKCKVKSTILHRSKCYDF
ETFAPKKYQWFDVLYQY

>accession|P58171.1|Putative Polcalcin Syr v 3 (Calcium-binding pollen allergen Syr v 3) [Syringa vulgaris]
MAEEVAELERIFKRFDANGDGKISSSELGETLKTLSVTPPEEIQRMMAEIDTDGDGFISF
EEFKDFARANSGLIKDVAKIF

>accession|Q9T0M8.1|Allergen Profilin-2 (Pollen allergen Par j 3) [Parietaria judaica]
MSWQAYVDDHLMCDVGDGNTLASAAIIGHDGSVWAQSANFPQLKPEEVTGIMNDFNEGGF
LAPTGLFLGGTKYMV IQGESGAVIGKKGSGGATLKKTGQAIVIGIYDEPMTPGQC NLVVE
RLGDYLLEQGM

>accession|Q9XG85.1|Allergen Profilin-1 (Pollen allergen Par j 3) [Parietaria judaica]
MSWQAYVDDHLMCDVGDGNTPASAAIIGHDGSVWAQSANFPQLKPEEVTGIMNDFNEAGF
LAPTGLFLGGTKYMV IQGESGAVIRGKKGSGGATLKKTGQAIVIGIYDEPMTPGQC NLVV
ERLGDYLLEQGL

>accession|O65200.1|Allergen Major allergen Pyr c 1 [Pyrus communis]
MGLYTFENEFTSEIPPRFLFKAFVLDADNLIPKIAQAIKHAEILEGNGGPGTIKKITFG
EGSQYGYVKHRVDSIDEASYSYAYTLIEGDALTDTIEKISYEAKLVASGSGSTIKSISHY
HTKGDIEIKEEHVKAGKEKAHGLFKLIESYLKDHDPDAYN

>accession|Q9NAS5.1|Putative Tropomyosin (Allergen Ani s 3) [Anisakis simplex]
MDAIKKMQAMKIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDL DKA
QEDLSTANSNLEEKKEKQVQAEAEVAALNRRMTLLEEELERAEERLKLATAKLEEATHTA
DESERVKVMENRSFQDEERANTVESQLKEAQLAEADRKYDEVARKLTMVEADLERAE
ERAETGENKIVELEEEELRVVGNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLDEDELVHEKERYKSISEELDQTFQELSGY

>accession|P19963.2|Allergen Major pollen allergen (Allergen Ole e 1)
(Ole e I) [Olea europaea]
EDIPQPPVSQFHIQGGQVYCDTCRAGFITELSEFIPGASLRLQCKDKENGDVTFTEVGYTR
AEGLYSMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFKLNTVNGTTRTVNPL
GFFKKEALPKCAQVYNKLGMYPPNM

>accession|AAK63086.1|Allergen parvalbumin beta [Gadus morhua]
MAFAGILADADCAA AVKACEAAESFSYKAFFAKCGLSGKSADDIKKAFFVIDQDKSGFIE
EDELKLFQLQVFKAGARALTAETKAFLKAGSDSDGDAIGVDEWAVLVKA

>accession|AAK63087.1|Allergen parvalbumin beta [Gadus morhua]
MAFAGILNDADITAALAACKAEGSFDHKAFFTKVGLAAKSPADIKKVFEEIIDQDKSDFVE
EDELKLFQLQNF SAGARALS DAETKVFLKAGSDSDGDKIGVDEFGAMIKA

>accession|AAK63088.1|Allergen parvalbumin [Theragra chalcogramma]
MSFAGVLADADVKAALAGCAAADSFNYKTFKACGLAAKSHEEVKKAFFVIDQDQSGFIE
EDELKLFQLQTFGAGARELTAETKAFLAAGDEDDGDMIGVDEFVTLVKA

>accession|AAK63089.1|Allergen parvalbumin [Theragra chalcogramma]
MAFAGILKDAEVAALAEACKSAGSFDHTKFFKSCGLAGKSSDDVKKAFGIIDQDQSDFIE
EEELKLFQLQNF SASARALS DAETKAFLKAGSDSDGDKIGVDEFAAMVKA

>accession|CAC42881.1|Putative putative class I chitinase [Hevea
brasiliensis]
EQCGRQAGGALCPGGLCCSQYGCANTPEYCGSGCQSQC DGGGGEDGGIDLGSII SRST
FEEMLKHRNDAACPAKGFYTYDAFISAAKAFPAFGTTGDVDTCKREIAAFFGQTSHTTQ
GWPTAPDGPYAWGYCYKEELNQASSYCSPPAYPCAPGKYYGRGPIQLSWNYNYGQCGQ
ALGLDLLNPNPDLVATDRVISFKAAIWFWMTPQFPKPSCHDVIITGQWSPTGHDISAGRAPG
YGVITNIINGGLECGRGWDARVEDRIGFYKRYCDMFAVGYGSNLDCYNQTPFGLG

>accession|AAK67491.1|Putative enolase [Curvularia lunata]
MAITKIHARSVYDSRGNPTVEVDIVTETGLHRAIVPSGASTGSHEACELRDGDKTKWGGK
GVTKAVANVNDIIAPALIKEKLDVKDQSAVDAFLNKL DGTENKTKLGANAILGVSMIAIAK
AAAAEKGVPLYAHISDLAGTKKPYVFRFLSKNVLNNGGSHAGGFLLFQEFMIAPAKTFAEA
LRIRQGAEVYQKLKALTKKTYGQSAGNYGDEGGVAPDIQTAEALDLIVDAIEAAGHTGQ
IKIAMDVASSEFFKDDEKKYDLDFKNPDSKSKWL TYPQLAEMYKSLAEKYPIVSIEDPF
AEDDWEAWSHFYKDGDFQIVGDDLTVTNPEFIKTAIELKSCNALLLKV NQIGTISEAINA
AKDAFGAGWGMVSHRSGETEDVTIADIVVGLRSGQIKTNAPARSERLAKYNQILRIEE
LGDKRLFAGNKFHTAINLYL

>accession|AAK67492.1|Allergen cytochrome c [Curvularia lunata]
MGFEQGD AKKGANLFKTRCAQC HTLKAGEGNKIGPELHGLFGRKTGSVAGYSYTDANKQK
GIEWNHDTLFEYLENPKKYIPGTKMAFGGLKPKDRNDLITFLEQETK

>accession|AAG02250.1|Allergen ferritin heavy chain-like protein
[Dermatophagoides pteronyssinus]
MAANPESTTKTSRVRMNFHKECEAGINKQINLELYASYVYQQMAFHFNREDVALPGFEKF
FHESSEEEEREHA EKLMKLQNRGGRIVLQDIPKPVQQDWSSGLEALKASLELEKT V NQSL
LDLHDLATKHND AQFADFI ESNYLHEQVEAIK KLADYITNLERC SVGLGEYLFDRHTLQ

>accession|CAC48400.1|Putative putative allergen jun o 1 [Juniperus
oxycedrus]
MASPCLRAVLVFLCAIVSCYSDNPIDSCWRGDSNWGQNRMKLADCVVGFSGSSTMGKGGE
FYTVTSAEDNPVNPTPGTLRYGATREKALWII F SQNMNIKLMPLYVAGHKTIDGRGADV

HLGNGGPCLFMRKVSHVILHGLHIHGCVNTSVLGDVLSVESIGVEPVHAQDGDITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMMLLGHDDTYDNDKSMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNYDPWNIYAIGGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESTSACANWVWRSTRDAFTNGAYFVSSGKIEETNIYNSNEAFKVENGNAAAPQLT
KNAGVVT

>accession|AAK96255.1|Allergen acidic allergen Cyn d 1 precursor [Cynodon
dactylon]
AMGDKPGPNITATYGDKWLDAKATFYGSDPRGAAPDDHGGACGYKDVKAPFDGMTGCGN
EPIFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIAAYHFDLSGKAFGAMAKKG
EEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSSPNYLALLVKYAAGDGNIVGVDIK
PKGSDEFLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGHVEQDDVIPEDWKPDTVYKS
KIQF

>accession|AAK96887.1|Allergen allergen II [Arachis hypogaea]
MAKLTILVALALFLLAHASARQQWELQGDRRCSQLERANLRPCEQHLMOKIQRDEDSY
ERDPYSPSQDPYSPSPYDRRGAGSSQHQCRCNELNEFENNQRMCCEALQQIMENQSDRL
QGRQQEQQFKRELRLNPQQCGLRAPQRCDLDVESGG

>accession|AAK13027.1|Allergen ribonuclease-like PR-10b [Malus domestica]
MGVFTYESEFTSVIPARLNFNAFVLDADNLIPKIAPQAVKSAEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKDNFVYKYSVIEGDAISETIEKISYETKLVAAGSGSVIKSTSHY
HTKGDVEIKEEHVKAGKEKASHLFLKLIENYLLEHQDAYN

>accession|AAK13029.1|Allergen ribonuclease-like PR-10c [Malus domestica]
MGVCTFENEFTSEIPPSRLFKAFVLDADNLIPKIAPQAIKQAEILEGNGGPGTIKKITFG
EGSQYGYVKHRIIDSIDEASYSYSYTLIEGDALTDTIEKISYETKLVAACGSGSTIKSISHY
HTKGNIEIKEEHVKVKGKEKAHGLFLKLIESYLKDHDPDAYN

>accession|AAK13030.1|Allergen ribonuclease-like PR-10a [Malus domestica]
MGVYTFENEYTSIIPPRLFKAFVLDADNLIPKIAPQAIKHAIEILEGDGGPGTTKKITFG
EGSQYGYVKKHIDSVDANYSYAYTLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHY
HTKGDVEIKEEHVKAGKEKAHGLFLKLIESYLKGHDPDAYN

>accession|AAK96889.1|Putative tropomyosin [Crassostrea gigas]
NSARGFDTVNEKYQECQTKMEEAEKTASEAEQEIQSLNRRIQLLEEDMERSEERLQTATE
KLEEASKAADESERNRNVLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAI
TEVDLERAEARLEAAEAKVLELEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQR
LKDAENRATEAERTVSKLQKEVDRLEDELLAEKERYKAISDELDQTFaelAGY

>accession|BAB64303.1|Putative beta-conglycinin alpha prime subunit
[Glycine max]
MMRARFPLLLLGVVFLASVSVSFGIAYWEKQNP SHNKCLRSCNSEKDSYRNQACHARCNL
LKVEEEEEECEEGQIPRPRPQHPERERQQHGEKEEDEGEQPRPFPPRPRQPRQEGEHEQK
EEHEWHRKEEKHGKGSSEEEQDGREHPRPHQPHQKEEEKHEWQHKQEKHQGKESEEEEED
QDEDEEQDKESQESGESQREPRRHKNKNPFHFNSKRFQTLFKNQYGHVVRVLQRFNKR
QQQLQNLDRYRILEFNSKPNLTLPHHADADYLIVILNGTAILTLVNNDDRDSYNLQSGDA
LRVPAGTTYVVPDNDENLRMITLAI PVNKPGRFESFFLSSTQAQQSYLQGF SKNILEA
SYDTKFEEINKVLFGRREGQQQGEERLQESVIVEISKKQIRELSKRAKSSSRKTISSEDK
PFNLRSDPIYSNKLGLFEITPEKNPQLRDLDFVLSVDMNEGALFLPHFNSKAI VVLV
INEGEANIELVGIKEQQQRQQQEEQPLEVRKYRAELSEQDIFVIPAGYPVVVNATSDLN
FAFGINAENNQRNFLAGSKDNVISQIPSOVQELAF LGS AKDIENLIKSQSESYFVDAQPQ
QKEEGNKGRKGPLSSILRAFY

>accession|BAB64306.1|Putative beta-conglycinin beta-subunit [Glycine max]

MMRVRFPLLVLVLLGTVFLASVCVSLKVREDENNPFYFRSSNSFQTLFENQNGRIRLLQRFN
KRSPQLENLRDYRIVQFQSKPNTILLPHHADADFLLFVLSGRAILTLVNNDDRDSYNLHP
GDAQRI PAGTYYLVNPHDHQNLKIIKLAIPVKNKPSRYDDFFLSSTQAQQSYLQGF SHNI
LET SFHSEFEEINRVLFGE EEEQRQOEGVIVELSKEQIRQLSRRAKSSSRKTISSEDEPF
NLR SRNPIYSNNFGKFFFEITPEKNPQPRDLDFLSSVDINEGALLLPHFNSKAIVILVIN
EGDANIELVGIKEQQQKQKQEEEPLEVQRYRAELSEDDVFVI PAAYPFVFNATSNLNF LA
FGINAENNQRNFLAGEKDNVVRQIERQVQELAFPGSAQDVERLLKKQRESYFVDAQPQQK
EEGSKGRKGPFP SILGALY

>accession|AAF07903.2|Putative procalin [Triatoma protracta]
MKT FIVITFIGILSYAYADECENPEPMQGF SASQFYQGXWVTHETSAXTLSECNILTTS
NDNGKFTVKHKYTKDGXVGELICEGQASANNKFTYDCKFXGZTMEQVTRTAMDTDYNDYA
LYYLCTTYKXGPNAGKKEGHYILSRRQPNT EIPDALKTKTKDLNLKLCG

>accession|AAL07320.1|Putative profilin [Litchi chinensis]
MSWQTYVDDHLMCETDGQHLTAAAIIGHDGSVWAQSANFPQFKPAEIAAIMKDFDEPGSL
APTGLHLGGTKYMIQGEFPAVIRGKKGPGGITVKKTTQALIIGIYDEPMTPGQCNMVVE
RLGDYLV DQGL

>accession|1JTI_A|Allergen Chain A, Loop-Inserted Structure Of P1-P1'
Cleaved Ovalbumin Mutant R339t [Gallus gallus]

GSIGAASMEFCFDVFKELKVH HANENIFYCPIAIMSALAMVYLGA KDSTRTQINKVVRFD
KLPFGGDSIEAQCGTSVNVHSSLRDILNQITKPN DVYSFSLASRLYAEERYPILPEYLQC
VKEL YRGGLEPINFQTAADQARELINSWVESQTNGIIRNVLQPSVDSQTAMVLVNAIVF
KGLWEKTFKDED TQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILEL PFASTMS
MLVLLPDEVSGLEQLES IINFEKLT EWTSSNVMEERKIKVYLPRMKMEEKYNLTSVLMAM
GITDVFSSSANLSGISSAESLKISQAVHAAHAEINEAGTEVVGSAEAGVDAASVSEEFRA
DHPFLFCIKHIATNAVLFFGR CVSP

>accession|CAC85911.1|Allergen arginine kinase [Plodia interpunctella]

MVDAATLEKLEAGFSKLAASDSKSLKYL TREVFDALKNKKT SFGSTLLDSIQSGVENL
HSGVGIYAPDAEAYVVFADLFDPIIEDYHNGFKKTDKHPKPNWGDVETLGNLDPAGEFVV
STRVRCGRSMEGYPFNPCLTEAQYKEMEEKVSSTLSGLEGELKGTFFPLTGMSKETQQQL
IDDHFLFKEGDRFLQAANACRFWPSGRGIYHNENKTF LVCNEEDHLRLISMQMGDLKQ
VYKRLVRGVNDIAKRIPF SHNERLGFLTFCPTNLGTTVRASVHIKLPKLAADKAKLEEVA
SKYHLQVRGTRGEHTEAEGGVYDISNKR RMGLTEYEAVKEMYDGAELIKIEKSL

>accession|AAL14077.1|Allergen acidic Cyn d 1 isoallergen isoform 2
precursor [Cynodon dactylon]

MLAVVAVVLASVMGGALCAMGDKPGPNITATYGDKWLD AKATFYGSDPRGAAPDDHGGAC
GYKDVDKAPFDGMTGCGNEP IFKDGLACGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFAFAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSNP NYLA
LLVKYAAGDGNIVSVDIKSKGSDEF LPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKI QF

>accession|AAL14078.1|Allergen acidic Cyn d 1 isoallergen isoform 3
precursor [Cynodon dactylon]

MLAAVAVVLASVMGGAWCAMGDKPGPNITATYGDKWLD AKATFYGSDPRGAAPDDHGGAC
GYKDVDKAPFDGMTGCGNEP IFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFAFAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKITFHVEKGS SP NYLA
LLVKYAAGDGNIVGVDIKPKGSDVFLPMKLSWGAIWRMDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKI QF

>accession|AAL14079.1|Allergen acidic Cyn d 1 isoallergen isoform 4 precursor [Cynodon dactylon]

MLAVVAVVLASMVGGALCAMGDKPGPNITATYGDKWLDKATFYGSDPRGAAPDDHGGAC
GYKDVDKAPFDSMTGCGNEPIFKDGLGCGSCYEIKCKEPAECSGEPVLIKITDKNYEHIA
AYHFDLSGKAFGAMAKKGEEDKLRKAGELMLQFRRVKCEYPSDTKIAFHVEKGSNPNYLA
LLVKYAAGDGNIVSVDIKSKGSDEFLLPMKQSWGAIWRIDPPKPLKGPFTIRLTSESGGHV
EQEDVIPEDWKPDTVYKSKIQF

>accession|CAD10374.1|Putative ypr10 [Castanea sativa]

MGVFTHENEITSAIPPGRLFKAFVLDADNLIPLKLAHPAIIKSAEIIIEGNGGPGTIKKITFG
EGSQFKYVKKHRIDEIDQANFTYCYSVIEGDVVNELLEKISYEIKIVASPDGGSILKNTSK
YHTKGEQEIKEEKVMAGKEKAAGLFKAVEAYLLAHSDAYN

>accession|CAD10376.1|Putative profilin [Capsicum annuum]

MSWQTYVDDHLMCEIEGNRLTSAAIIGQDGSVWAQSATFPQFKPEEITAIMNDFAEPPGTL
APTGLYLGGTKYMVIQGEAGAVIRGKKGPGGITVKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIEQSL

>accession|CAD10377.1|Allergen profilin [Solanum lycopersicum (Lycopersicon esculentum)]

MSWQTYVDEHLLCENEGNHLTSAAIIGQDGTVWAQSANFPQFKPEEITGIMNDFAVPPGTL
APTGLYLGGTKYMVIQGEPEAVIRGKKGPGGITIKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLIEQSL

>accession|BAB71741.1|Putative glyoxalase I [Oryza sativa (japonica cultivar-group)]

MASGSEAEKSPEVVLEWPKKDKRVLHAVYRVGDLDRITIKCYTECFGMKLLRKRDPVEEK
YTNAFLGFGPEDTNFALELTYNYGVDKYDIGAGFGHFIAIATEDVYKLAEKIKSSCCCKIT
REPGPVKGGSTVIAFAQDPDGYMFELIQRGPTPEPLCQVMLRVGDLDRSIKFYEKALGMK
LLRKKDVPDYKYTIAMLYADEDKTTVIELTYNYGVTEYTKGNAYAQVAIGTEDVYKSAE
AVELVTKELGGKILRQPGPLPGLNFKIASFLDPDGWKVVLVDNADFLKELQ

>accession|CAC34055.2|Putative osmotin-like protein [Capsicum annuum]

MGYLRSSFVFLFLAFVITYYAATFEVRNNCPYTVWAASTPVGGRRRLDRGQTWTINAPPG
TAMARIWGRNTCNFDGSGRSGCQTGDCGGVLQCTGWGKPPNTLAEYALNQFNNDLDFWDIS
LVDGFNIPMTFAPTNPSGGKCHAIQCTANINGECPGSLRVPGGCNPCTTFGGQQYCCTQ
GPCGPTLSKFFKKRCPDAYSYPQDDATSTFTCPSGSTNYRVVFCPNGVTGPNFPLEMPG
SDGVAK

>accession|AAL29690.1|Allergen profilin [Solanum lycopersicum (Lycopersicon esculentum)]

MSWQTYVDDHLMCDIEGNHLTSAAIIGQDGSVWAQSANFPQFKPEEITAIMNDFAEPPGTL
APTGLHLGGTKYMVIQGEAGAVIRGKKGAGGITVKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYIIEQGL

>accession|AAL37561.1|Allergen conglutin [Arachis hypogaea]

AKSTILVALLALVLVAHASAMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRIMGEQEQ
YDSYDIRSTRSSDQQQRCCDELDQMENTERCMEALQQIMENQCDRLQDRQMVQQFKREL
MNLPQQCNFRAPQRCDLVDVSGGRC

>accession|BAB79444.1|Putative BW8KD allergen protein [Fagopyrum esculentum]

MKFLFLILAAASLLIVASHADSQMRKCRKQMRMMEPQLEQCEGYMTMDMMDDDSMRGREG

RSEESMRGCCLAMKEMDDECMCEWMKMMVQQQRGEMGEEDMRMVMRKMQLPNKCGMGH
MRCHMGIGTRDYE

>accession|CAC81811.1|Putative putative chitinase [Musa acuminata]
MKALLLVIFTLASSLGAFQCGRQAGGALCPGGLCCSQYGCWCGNTDPYCGQGCQSQCGG
SGGSGGGSVASIISSSLFEQMLKHRNDAACPGKGFYTYNAFIAAANSFSGFGTTGDDAKK
KREIAAFLAQTSHETTGGWATAPDGPYAWGYCFVQEQNPSSDYCVASSQWPCAAGKKYYG
RGPIQISFNINYGPAGRAIGSDLLNPDVATDATISFKTALWFWMTQSPKPSCHDVIT
GSWTPSNADQAAGRLPGYGVTTNIINGGLECGKGYDARVADRIGFYKRYCDLLGVSYGDN
LDCYNQRPFASTAATATF

>accession|AAL49391.1|Putative cystatin [Felis catus]
MIPGGLSEAKPATPEIQEIANEVKQLEEKTNETYQKFEAIEYKTQVVAGINYYIKVQVD
DNRYIHIKVFVKGLPVQDSSLTLTGYQTGKSEDELDTGF

>accession|CAC83658.1|Allergen parvalbumin [Cyprinus carpio]
MAFAGILNDADITAALQGCQAADSFYDKSFFAKVGLSAKTPDDIKKAFVIDQDKSGFIE
EDELKLFQNFSAGARALDPAETKAFKAGDSDGDGKIGVDEFAALVKA

>accession|CAC83659.1|Allergen parvalbumin [Cyprinus carpio]
MAFAGVLNDADITAALQGCQAADSFNHNKTFKAVGLTSKSAADVKKAFVIDQDKSGFIE
EDELKLFQNFSAGARALDGETKTFKAGDSDGDGKIGVDEFTALVKA

>accession|AAL47677.1|Allergen major Der f 2 isoform [Dermatophagoides
farinae]
DQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFLEALFDANQNTKTAKIEIKASLDG
LEIDVPGIDTNACHFMKCPVKGQYDAKYTWNVPKIAPESENVVTVKLVGDNGVLACA
IATHAKIRD

>accession|CAD20405.1|Putative group 5 isoallergen [Dactylis glomerata]
ADAGYTPAAAATPAAAGGKAMTEEQKLIEDVNAGFKAAVAASSAPPADKFKTFEATFTA
ACKANIAAAATKVPLFVAKLDAAYAVAYKTAAGPTPEAKYDAFVAALTEALRVIAGALEV
HAVKPAEEVPAAKIPAGELQIVDKIDAAYKIAATAANAAPANDKFTVFEGAFNKAIKES
TGGAYESYKFIPTLEAAVKQAYAATVAAPEVKYAVFEAALTKAITAMSEAQKVATPAAA
ATGAATAAASAATGAATAAAGGYKV

>accession|CAD20406.1|Allergen Group 1 allergen-like [Dactylis
glomerata]
MASSSSSVLLVVALFAVFLGSAHGIPKVPVPGPNITATYGDKWLDKSTWYGKPTGAGPKD
NGGACGYKDVKAPFNGMTGCGNTPIFKDGRCGSCFEIKCTKPESCSGEAVTVHITDDN
EPIAPYHFDLSGHAFGSMKKGEEQKLSAGELELQFRRVKCKYPEGTVTFHVEKGSN
PNYLALLVKYVDGDGDVAVDIKEKGDKWIALKESWGAIWRVDTDPDKLTGPFTVRYTTE
GGTKSEVEDVIPEGWKADTSYEA

>accession|Q91483.3|Allergen Parvalbumin beta 2 (Major allergen Sal s 1)
[Salmo salar]
MSFAGLNDADVAAALAACTAADSFNHKAFFAKVGLASKSSDDVKKAFYVIDQDKSGFIEE
DELKLFQNFSAARALDPAETKAFKAGDSDGDGDMIGVDEFAAMIKG

>accession|CAC86258.1|Allergen lipid transfer protein [Fragaria x
ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVANSISPCLTYVKSGGAVPAACCSGIRNL
NGMAKTTADRQAACNCLKQAAGGIKGLNPNLAAGLPGKCGVSVPYKISTTTNCAAVK

>accession|AAL73404.1|Allergen 11S globulin-like protein [Corylus avellana]

MAKLILVSFSLCLLVLFNGCLGINVGLRRQQQRYFGE CNLDRNLNALEPTNRIEAEACQIE
SWDHNDQQFQCAGVAVIRRTIEPNGLLLPQYSNAPELIYIERGRGITGVLFPGCPETFED
PQQQSQQGQRQGGQSQRSEQDRHQKIRHFREGDIIALPAGVAHWCYNDGDSPVVTVSLL
HTNNYANQLDENPRHFYLAGNPDEHQRQGGQQQFQORRRQQQSHHGEGEQEQEGGNNV
FSGFDAEFLADAFNVDVDTARRLQSNQDKRRNIVKVEGRQLQVVRPERSRQEWERQERQER
ESEQERERQRRQGGGRDRVNGFEETICSLRLRENICTRSRADIYTEQVGRINTVNSNTLP
VLRWLQLSAERGLDQREGLYVPHWNLNAHSVYYAIRGRARVQVDDNGNTVFDDDELROGQ
VLTIPQNFVAVAKRAESEGFVAFKTNDAQISPLAGR TSAIRALPDDVLANAFQISREE
ARRLKYNRQETTIVRSSRSSSERKRRSESEGRAEA

>accession|AAL75449.1|Putative minor allergen beta-fructofuranosidase precursor [Solanum lycopersicum (Lycopersicon esculentum)]

MATQCYDPENSASRYTLLPDQPD SGHRKSLKIIISGIFLSVFLLLSVAFFPILNNQSPDLQ
IDSRSPAPPSRGVVSQGVSDKTFRDVAGASHVSYAWSNAML SWQRTAYHFQPKNWMNDPN
GPLYHKGWYHLFYQYNPDSAIWGNITWGHAVSKDLIHWLYLPFAMVPDQWYDINGVWTGS
ATILPDGQIMMLYTGDTDDYVQVQNLAYPANLSDP LLLLDWVKFKGNPVLVPPP GIGVKDF
RDP TTAWTG PQNGQWLLTIGSKIGKTGVALVYETSNFTSFKLLDGV LHAVPGTGMWECVD
FYPVSTKKTNGLDTSYNGPGVKHVLKASLDDNKQDHYAIGTYDLGKNKWT PDNPELDCGI
GLRLDYGKYASKTFYDPKKERRVLWGWIGETDSESADLQK GWASVQSI PRTVLYDKKTG
THLLQWPVEEIESLRVGDPTVKQVDLQPGSIELLRVDSAAELDIEASFEVDKVALQGIIE
ADHVGFS CSTS GGAASRGILGPFVIV IADQTLSELTPVYFYISKGADGRAETHFCADQT
RFAFLSGTINLSL

>accession|AAL75450.1|Putative minor allergen beta-fructofuranosidase precursor [Solanum lycopersicum (Lycopersicon esculentum)]

MATQCYDPENSASRYTLLPDQPD SGHRKSLKIIISGIFLSVFLLLSVAFFPILNNQSPDLQ
IDSRSPAPPSRGVVSQGVSDKTFRDVAGASHVSYAWSNAML SWQRTAYHFQPKNWMNDPN
GPLYHKGWYHLFYQYNPDSAIWGNITWGHAVSKDLIHWLYLPFAMVPDQWYDINGVWTGS
ATILPDGQIIMLYTGDTDDYVQVQNLAYPANLSDP LLLLDWVKFKANPVLVPPP GIGVKDF
RDPITAWTGPQNGQWLLTIGSKIGKTGVALVCETSNFTSFKLLDGV LHAVPGTGMWECVD
FYPVSTKKTNGLDTSYNGPGVKHVLKASLDDNKQDHYAIGTYDLGKNKWT PDNPELDCGI
GLRLDYGKYASKTFYDPKRERRVLWGWIGETDSESADLQK GWASVQSI PRTVLYDKKTG
THLLQWPVEEIESLRVGDPTVKQVDLQPGSIELLRVDSAAELDIEASFEVDKVALQGIIE
ADHVGFS CSTS GGAASRGILGPFVIV IADQTLSELTPVYFYISKGADGRAETHFCADQT
RSSEAPGVGKQVYGSSVPVLDGEKHSRMLLDH SIVESFAQQGRTVITSRIYPTKAVNGA
ARLFVFN NATGASVTASVKIWSLESANI QSFPLQDL

>accession|AAL76932.1|Allergen major allergen isoform Dau c 1.0201 [Daucus carota]

MGVQKTEVEAPSTVSAEKMYQGFLLDMDTVFPKVL PQLIKSVEILEGDDGGVGTVRLVHLG
EATEYTTMKQKVDVIDKAGLGYTYTTIGGDILVEGLE SVVNQFVVVPTDGGCIVKNTTIY
NTKGDAVLPEDKVKEATEKSALAFKAVEAYLLAN

>accession|AAL76933.1|Allergen minor allergen Dau c 4 profilin [Daucus carota]

MSWQTYVDDHLMCEVDGNPQQLSAAAIIGHDGSVWAQSSTFPKFKPEEITGIMKNFDEP
GHLAPTGLYLGGTKYMIQGEPIAVIRGKKGSGGV TIKKTGQALVFGVYDEPVTPGQCNL
IVERLGDYLI EQGL

>accession|CAC37790.2|Allergen putative allergen Cup a 1 [Cupressus arizonica]

MASPCLVAVLVFLCAIVSCYSDNPIDSCWRGDSNWDQNRMKLADCVVGFGLTMGGKGG E

IYTVTSSDDNPVNPTPGTLRYGATREKALWIIIFSQNMNIKLQMPLYVAGYKTIDGRGADV
HLNGGCPCLFMRTASHVILHGLHIHGCVTLGDLVSESIGVEPVHAQDGDITMRNVT
NAWIDHNSLSDCSDGLIDVTLGSTGITISNNHFFNHHKVMMLLGHDDTYDDDISMKVTVAF
NQFGPNAGQRMPRARYGLVHVANNNDQWNIYAIIGSSNPTILSEGNSFTAPSESYKKEV
TKRIGCESTSACANWVWRFTRDAFTNGAYFVSSGKAEETNIYNSNEAFKVENGNAAAPQLT
QNAGVVT

>accession|CAA09887.4|Putative allergen [*Malassezia sympodialis*]
MSNVIKKVFNTDKAEAEAGSKVADAPQEAGHKGEGFLHDAKDRLOGFAGHGHNAQNAASG
VAGSAGAGGAPSVPSANVDVTNPVNDASVQGGVEAPRSWSTQLPQSQSVADTTGATSAGR
NNLTQTTSTGSGVNVAAGNVDQDVQHLAPVTRHVHRRHEIEELLREREHHIHQHIIQHVV
QPVDSEHLAEQIHSRVVPQTTVREHVANTDKDAALMRAVAGNPKDTFTQAAIDRSVIDK
GETVREIVHHHIHNIVQPIIEKETHEYHRIRTTIPTTHITHEAPIVHESTAHQPIRKEDF
LKGGLVLTSTTRSIEEVGLLNLGNQRTVEGETYTGGLPLSQ

>accession|AAL86701.1|Allergen tropomyosin [*Periplaneta fuliginosa*]
MDAIKKKMQAMKLEKDNAMDRALLCEQQARDANLRAEKAEERSLQKKIQQIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAA
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANLREEAYKQQIKTLTTRLKEAEARAE
FAERSVQKLQKEVDRLDEDELVHEKEKYKFCDDLDMTFTTELIGN

>accession|AAL86739.1|Allergen 48-kDa glycoprotein precursor [*Corylus
avellana*]
MLPKEDPELKKCKHKCRDERQFDEQQRRDGKQICEEKARERQQEEGNSSEESYGKEQEEEN
PYVFQDEHFESRVKTEEGRVQVLENFTKRSRLLSGIENFRLAILEANPHTFISPAPHDAE
LVLFVAKGRATITMVREEKRESFNVEHGDIIRIPAGTPVYMINRDENEKLFIVKILQPVV
APGHFEAFYGAGGEDPESFYRAFSWEVLEAALKVRREQLEKVFGEQSKGSIVKASREKIR
ALSQHEEGPPRIWPFGGESSGPINLLHKHPSQSNQFGRLYEAHPDDHKQLQDLDMVVSFA
NITKGS MAGPYNSRATKISVVVEGEGFFEMACPHLSSSSGSYQKISARLRRGVVVFVAPA
GHPVAVIASQNNNLQVLCFEVNAHGNSRFPFLAGKGNIVNEFERDAKELAFNLPSREVERI
FKNQDQAFFFPGNKQQEEGRRGRAFE

>accession|AAK27264.1|Putative isoflavone reductase-like protein CJP-6
[*Cryptomeria japonica*]
MGGSRVLIIGGTGYIGRHVTNASLAQGHPTFLLVREITPSNPEKAQLLESFTSKGATLVQ
GSIDDHASLVAALKKVDVISTLGAPQIADQFNLIKAIKEVGTIKRFFPSEFGNDVDKHH
AVEPMKSMFDLKIKLRRTEAEGIPHTYVVPFCFAGYFLTNLALGLAAPPDRDKIVIYGD
GTTKAVYMKEEDIGTFTIKAVDDPRTLNLKTLYLKPPANTISTNDLVALWEAKIGKTLEKV
YLSEEQVLKLLQDTPFPPTFMVSIHTIYVKGQDQTNFQIGPDGVEASALYPDVKYTTVEE
YISAFV

>accession|AAL79930.1|Allergen 60S acidic ribosomal protein P2 [*Fusarium
culmorum*]
MKHLAAYLLLGLGGNTSPSAADVAVLTSVGDIDADEDRNLNKLISELEGKDIQQLIAEGSE
KLASVPSGGAGGASGAAAAGGAAEEAKEEEEEKEESEDEDMGFGLFD

>accession|AAL79931.1|Putative thioredoxin-like protein [*Fusarium
culmorum*]
MVHHITSNDELQKLLSSTTYVVVDFADWCPPCKAIAPVYEQVSTKHSVPDVLAFKVN
DHVQDAAQQYGITAMPTFMFFKEGKQVAVNGQAVIKGADPRTLGAEEKLGGLAQKRVAG
A

>accession|BAB88129.1|Allergen pathogenesis-related protein-like protein 1 [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNVLPKAAPGAYKNVEIKDGGVGTIKHITLPE
GGPVTMTLRTDGLDKKNCTIDYSYIDGDILMGFIEKIENHLSVVPNADGGSTTKTTAIF
HTKGDVAVPEENIKYAEEQNTMLFKAVEAYLIAN

>accession|AAL25839.1|Putative lipid transfer precursor protein [Hevea brasiliensis]
MAALKMVSFLVLCMLVAAPMTAQAITCGQVQSALVPCLSYLKTTGTPPATCCNGVRTIN
NAAKTTADRRTACQCLKSAAGSVKGLNPTTVAGLPGKCGVNIPIYKISLSTNCATVK

>accession|P20347.3|Allergen Cysteine protease inhibitor 1 precursor (PCPI 8.3) (P340) (P34021) [Solanum tuberosum]
MKSINILSFLLLSSTLSLVAFARSFTSENPIVLPPTCHDDDLVLPVEVDQDGNPLRIGE
RYIINNPLLGGAVYLYNIGNLQCPNAVLQHMSIPQFLGEGTPVVFVRKSESDYGDVVRV
MTVVYIKFFVKTTKLCVDQTVWKVNDEQLVVTGGKVGNNENDIFKIMKTDLVTGGSKYVY
KLLHCPSHLGCKNIGGNFKNGYPRLVTVDDDKDFIPFVFIKA

>accession|P02762.2|Allergen Major urinary protein 6 precursor (MUP 6) (Alpha-2U-globulin) (Group 1, BS6) (Allergen Mus m 1) [Mus musculus]
MKMLLLLCLGLTLVCHVHAEASSTGRNFNVEKINGEWHITIIILASDKREKIEDNGNFRFL
EQIHVLENSLVLFKHTVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIIPKTDYDNFLM
AHLINKEKDGETFQLMGLYGREPDLSSDIKERFAQLCEEHGILRENIIDLSNANRCLQARE

>accession|AAM21322.1|Putative group 14 allergen protein [Dermatophagoides pteronyssinus]
LLTACLLGLGQAQHCEVACPRSIQQLINPKAQSTYVYSLDAKTVLTPRDSQKVTIKGD
VAFVSDCEAVLRLQNVAIIDGVPNGAELAAELAAKPFAGFYFNIRILGVCPADDDQDWSLN
VKKAIIVSSLQALS DGNVEKAEI DFSGRCPT EYR KIRS QDDNTVVI EK RKDLNL CDDRR I
DLRQTPDQALGQLKELMRHYMHPMDS DLSCRMTLKD KVVTEVDCEERHVLVHR SNKPVHM
SYVKMMLKQNKDGVAA DLGPTNAQPKR PYLSFDHKHKNP TETDVVEVLK KLCSEITEPQA
SIETSFTFQKLVDKLR YLSAEETASVDES VKTSVCPAHAHRLRELFLDASAFAASDGSIR
TLVKAHENQELSI TRSTALFTVA AIKAAPNKETVQV LLEPVIASEKTIRPMLLGF SVLVRR
YCEK'TNDCATNSGVKDAR DAYLARLAVARDASERMTI VRALENLN VNTDGVDMV NAMDE
I IKSTDAEPAMRAAAVNALPNDASHMDRYKSLVMDESM PNARIAAFQKMMKNGGMSHIK
DLFAVKGECMKNYVLT YVDNLKKS KNDLRRQTVGEDVELPEKPKREIGITRNIAREYGPY
TFEYDVIYPETHENVTRS INGLIRSKNDQLKELVEFQVTQSGFDRELNNAMS LLEKKS F
QSVMQFLRDMLKMLSQ IRKNADDNHHMKITVQINGKNVYFTDLFQDTKKMKELLMKRVEK
I INDKKVDRSIGGVLLD SKLVLP TITGLPLMYKFGDNLV VRYDGEFSGEKGDRNIRMNGG
VVAGLYGKMKLMVKDHKMGYEYDAKASYTPMIDMN VQKQEHSLLVRFNMKDMDQHTVMRF
KQSLREKRATGEEKDYENI TPDARS DRCSFFLLDYCRKASHIKGLMLPNVEYYVVKPE
KEVTALELM LKSETQDKTRRYIAEMTAVGSPSNKQAKAELEVTKGEQYRVSVKLP EHEFN
TEFTINADKNNLKM HMDLPNVLQADLTGSFEHDKENNRKNRLNLQYKFAGDEKPHTVDY
ENEF LFNLRSSKEKNSAVEYRAKYMSSHFPILNHKVN VQFKYRPFKVNELNLEGEFGRE
LQHKFRLMRNSQMEVEEVRPFKMHGNSDIKLMANDLDIDYDLKSEFKYESNKGTPIELQY
KVS GDRSKRAEMNAEDVEGV IDYKNSGSPIDSKMHAHLKVKGNNGYDSELKQTEPQQ
YEGKMTLSKNDKKIFITHKTEMTKPTSTFLLKTDADVS YSESDMKKH YHMEFKKENDIYT
LRSTVERDGLFYENYLTVHKGKLN LNRYRNRDRKILLDL DNALSPREGTMKLN IKDREY
NFVLKRDPMRYRDI TVEGNENAYVKNGLHL SLIDPSTLSLVTKADGQIDMTVDLISPIT
KRASLKVDSKKYNLFHEGELSASLVNPRLSWHQYTKRDSREYKTDVDSLRS SDIAVKIT
MPDYN SKIHYSRQNDQISMDIDGTLIEGHAKGTIKEGKIHIKGRQSDFEIESNYRYEDGK
MLIEPVKSENGKLEGVLSRKVPSHLTLET PRVKMMNQYDRHSPVKMFKLDYDGIHLEKHT
DLLEYEPGVQYKII GNKIKDDGSHYSIDIQ GKPRKAFKLDADMMNFKLN VNKPEDSNKAQ
FSYTFNDYTETE EYEFDPHRAYYINWISSIRKYIQNFIVEDH

>accession|CAC84590.2|Allergen tropomyosin [Lepisma saccharina]
MEAIKKKMQAMKLEKDNAMDKADALEAQARDANRKADKILEEVQDLKKKPSQVETDFTTT
KENLATANKNLEDKEKTLTNTSEVASLNRKVQMI EENLERSEERLGTALTKLGEASHAA
DEASRMCKVLENRSQQDEERMDQLTNQLKEARMLAEDADGKSDEVSRKMAQVEDDLEVAE
DRVKS GDSKIMELEEEELKVVGNLSLKSLEVSEEKANQRVEEYKRQIKTLTVKLKEAEARAE
YAEKYVKKLQKEVDRL EDELGINKDRYRALADEMDQTF AELSGY

>accession|CAC84593.2|Allergen tropomyosin [Lepisma saccharina]
MEAIKKKMQAMKLEKDNVDRARQNEQEAKDANLRAEKAEEEEARSLOKKIQT IENELDQT
QEQLMQVNAKLEEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATQKLAEASQAA
DESERM RVLENRSLADEERMDALENQLKEARFLAE EADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQRE EEEYKQQIKTLTTRLKEAEARAC
WLL

>accession|CAC83046.1|Putative parvalbumin alpha [Rana esculenta]
MPMTDLLAAGDISKAVSAFAAPESFNHKKFFELCGLKSKSKEIMQKVFHVL DQDQSGFIE
KEELCLILKGFTPEGRSLSDKET TALLAAGDKDGDGKIGVDEFVTLVSES

>accession|CAC83047.1|Putative parvalbumin alpha [Rana sp. CH-2001]
MPMTDVLAACDISKAMAAPFAAEPFNHKKFFELCGLKSKSQDDMKKVFHMLDKDQSGFIE
KDELALILKGFTPEGRDLSDKET TALLAAGDKDGDGKIGVDEFV KLVSEC

>accession|CAC95152.1|Putative parvalbumin beta protein [Rana esculenta]
MSITDIVSEKDIDAALESVKAAGSFNYKIFFQKVGLAGKSAADAKKVF EILDRDKSGFIE
QDELGLFLQNFRA SARVLSDAETS AFLKAGDSDGDGKIGVEEFQALVKA

>accession|CAC95153.1|Putative parvalbumin beta protein [Rana sp. CH-2001]
MSITDIVSEKNIEAALESVKAEGSFYKCFQKVGLAGKSADDAKKVF EILDRDKSGYIE
KDELCLFLQNFKSSARALNDAETS AFLKAGDSDGDGKIGVEEFQALVKA

>accession|AAM33821.1|Allergen alkaline serine protease [Penicillium chrysogenum]
MGFLKLLSTSLATLAVVNAGKLLTANDGDEVVPSYIVVMNDGVSTAQFETHRNWAANVH
ARTRSLKGGESGPGKHFDINGMKGYSASFDDRTVKDIASDPTVKYVEPDMVVNATANVVQ
RNAPSWGLSRIS SKSGATDYVYDSTAGEGIV IYGVDTGIDIGHADFGGRAEWGTNTADN
DDTDGNHGHTHTASTAAGSKFGVAKKASVVAVKVLGADGSGTNSQVIAGMDWAVKDSKSR
GATGKSVMNMSLGGAYS RAMNDAANVVRSGVFLSVAAGNEAQDASNSSPASAPNVCTIA
ASTNSDGSASF TNGSVVDLYAPGKDITAAYPGGGSKT LSGTSM AAPHVAGAAAYLMALE
GVTSKACARIVELAISSISSAPSGTTSKLLYNGINAQ

>accession|CAD32313.1|Putative Lep D 2 precursor [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDITGCSGDTCVIHRG EKMTLEAKFAANQ
DTAKVTIKVLT KVAGTTIQVPGLET DGCKFIKCPVKKGEALDFIYSGTIPAITPKVKADV
TAE LIGDHGVMACGTVHGQVE

>accession|CAD32314.1|Putative Lep D 2 precursor [Lepidoglyphus destructor]
MMKFIALFALVAVASAGKMTFKDCGHGEVTELDISGCSGDTCVIHRG QKMTLDAKFAANQ
DTNKVTIKVLAKVAGTTIQVPGLET DGCKVLKCP IKKGEALDFNYGMTIPAITPKIKVDV
TAE LVGDHGMACGTI HGQVE

>accession|AAM43909.1|Putative large subunit ribosomal protein L3 [Aspergillus fumigatus]
MSHRKYEAPRHGSLAFLPRKRAARHRGKVKVSFPKYDPKKPVHLTASMGYKAGMTTVVRDL
DRPGAKMHKKEIVEAVTI IETPPLVAVGVVGYIETPRGLRSLTTVWAEHLSDEVKRRFYK
NWKSKKKKAFKTYAKKHAEENGASITRELERIKKYCTVVRVLAHTQIRKTPLKQKKAHLM
EIQVNGGVSADKVDVFARNLFEKPIEIDSIFEKDEMIDVIAVTKGHGFQGVTSRWGTTKLP
RKTHKGLRKVACIGAWHP SHVQWTVARAGQMGYHHRTSCNHKVFRIKGSDEGNASTDFD
ISKQITPMGGFVRYGEVKNDYIMVKGSVPGVKKRVMTLRKTLYPQTSRRATEKVELKWI
DTSSKFGHGAFQTPEEKRAFMGTLKDLVTS

>accession|AAM46958.1|Allergen allergen Arah3/Arah4 [Arachis hypogaea]
MGKLLALSVCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEPAQQGR
RHQSQRPPRRFQGDQSQQQQDSHQVHRFDEGDLIAVPTGVAFWYNDHDTDVVAVSLT
DTNNNDNQLDQFPRRFLNLAGNHEQEFLRYQQQSRRRSLPYSYSPQTQPKQEDREFSPRG
QHGRRERAGQEENEGGNIFSGFTPEFLAQAFQVDDRQILQNLRGENESDEQGAIVTVRG
GLRILSPDRKRRQQYERPDEEEYDEDEYDEEERQQDRRRGRGSRGSGNGIEETICTA
SFKKNIGRNRSPDIYNPQAGSLKTANELQLNLLILRWLGLSAEYGNLYRNALFVPHYNTN
AHSIIYALRGRAHVQVVDNSGDRVFDEELQEGHVLVVPQNFVAVAGKSQSENFYVAFKTD
SRPSIANLAGENSFIDNLP EEVVANSYGLPREQARQLKNNNPFKFFVPPSEQSLRAVA

>accession|CAD10390.1|Putative profilin [Phoenix dactylifera]
MSWQAYVDEHLMCEIDGHHLTAAAILGHGDSVWAQSSSFPQFKSEEITNIMNDFNEPGSL
APTGLYL GSTKYMVIQGEPGA VIRGKKGSGGVTVKKTNQALIFGIYEEPMTPGQCNMVVE
RLGDYLIEQGM

>accession|1KTJ_A|Allergen Chain A, X-Ray Structure Of Der P 2, The Major House Dust Mite Allergen [Dermatophagoides pteronyssinus]
SEVDVKDCANHEIKKVLVPGCHGSEPCI IHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVMGDDGVLACA
IATHAKIRD

>accession|AAM55492.1|Putative allergenic-related protein Pt2L4 [Manihot esculenta]
MATAEVVTAQTALPEEKPAEEVKVSEIVTEEAAPAVEPVAEEPKEAEPVAVSEEPKEADD
APAEVAVETKEVVEVEEAKTVTEEPTVEKTEEEEEETPKEETPEPVVVKETPKEEPAEETV
VVEAPKETTEAATEAEAPAPESAPASASETPAEEEEVPKEEEGDEKKSEAEVEAEKTE

>accession|AAM64112.1|Putative gelsolin-like allergen Der f 16 [Dermatophagoides farinae]
MAAHDKNFDVIPIGHTFFFIWRIKQFELVPVPKEDYGKFKYKGCYIVACCTENPTGGHSK
MESKPILNGHGYCHIHFWIGSESTKDEAGVAAIKSVELDDFLGGYPVQHREIEEFESRQF
SSYFKNGI IYLGKGYESGFTKMIDELKPSLLHVKGKRRPIVYEC AEISWKVMNNGDVFIL
LVPNFVFWVTGKHSNRMERTTAIRVANDLKSELNRFKLSSVILEDGKEVEQTSGAEYDAF
NKALS LDKKIDLDKQMPKGYDYAASDKSFESHESFVTLYKCFEGTETIDISFVKNGLS
RADLDTNDTFIVENGSEGLWVWVGKATQKERQSAIKYAMELINKKKYPNNTPVTKVLEG
DESVEFKSLFESWQMSQEKIT SARLFRVSRNGIFKQVANYEPDDEEDNIMILDVMDKI
YVWIGNQFAERIADEAHVDKVAQRFIQEDKSGRKFQPNQI I K L K Q G S E D G A F K S Y F P K W N

>accession|AAM73729.1|Putative vicilin-like protein [Anacardium occidentale]
PPTKFSFSLFLVSVLVLCLGFALAKIDPELQCKHQCKVQRQYDEQQKEQCVCKECEKYYK
EKKGREREHEEEEEEWGTGGVDEPSTHEPAEKHLSQCMRQCERQEGGQKQLCRFRCQER
YKKERGQHNYKREDEDEDEDEAE E E E D E N P Y V F E D E D F T T K V K T E Q G K V V L L P K F T Q K S K

LLHALEKYRLAVLVANPQAFVVP SHMDADSIFFVSWGRGTITKILENKRESINVRQGDIV
SISSGTPFYIANNDENEKLYLVQFLRPVNLPGHFVVFHGPGENPESFYRAFSWEILEAA
LKTSKDTLEKLFQDQGTIMKASKEQVRAMSRREGPKIWPFTTEESTGSFKLFKKDPSQ
SNKYGQLFEAERIDYPPLEKLDMVVSYANITKGGMSVPPFYNSRATKIAIVVSGEGCVEIA
CPHLSSSKSSHPSYKLRARIRKDTVFIVPAGHPFATVASGNENLEIVCFEVNAEGNIRY
TLGKKNIIKVMEKEAKEELAFKMEGEEVDKVFQDEEFFQGPWEWRKEKEGRADE

>accession|CAD32318.1|Allergen major allergen d 1 [Malus x domestica]
GVYTYENEYTSEIPPPRLFKAFLVDADNLIPIKIAPOAIKHAEILEGDGGPGTIKKITFGE
GSQYGYVKHKIDSVDENYASYATLIEGDALTDTIEKVSYETKLVASGSGSIIKSISHYH
TKGDVEIMEEHVKAGKEKAHGLFKLIESYLKDHDPDAYN

>accession|CAD38361.1|Allergen Cysteine protease-like [Dermatophagoides
pteronyssinus]
TNAC SINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTI IQEDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38362.1|Allergen Cysteine protease-like [Dermatophagoides
pteronyssinus]
TNAC SINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTI IQQDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38363.1|Allergen Cysteine protease-like [Dermatophagoides
pteronyssinus]
TNAC SINGNAPAEIDLRQMETVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTI IQQDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38364.1|Allergen Cysteine protease-like [Dermatophagoides
pteronyssinus]
TNAC SINGNAPAEIDLRQMOTVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTI IQQDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38365.1|Allergen Cysteine protease-like [Dermatophagoides
pteronyssinus]
TNAC SINGNAPAEIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTI IQQDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38366.1|Allergen Cysteine protease-like protein product
[Dermatophagoides pteronyssinus]
TNAC SINGNAPAEIDLRQMETVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAEQSCRRPNAQRFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGQTI IQEDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38367.1|Allergen Cysteine protease-like protein product
[Dermatophagoides pteronyssinus]
TNAC SINGNAPAEIDLRQM QTVTPIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCANQHGHGCHGDTIPRGIEYIQHNGVVQESYYRYVAQE QSCRRPNARFGISNYCQIY
PPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGETIIQEDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38368.1|Allergen Cysteine protease-like [Dermatophagoides
pteronyssinus]
TNAC SINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAQE QSCRRPNADRFGISNYCQIY
PPNVNKIEEALAQTHSAIAVIIGIKDLDAFRHYDGQTTIQEDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38369.1|Allergen Cysteine protease-like [Dermatophagoides
pteronyssinus]
TNAC SINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQIEYIQHNGVVQESYYRYVAEEQSCRRPNADRFGISNYCQIY
PPNVNKIQEALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38370.1|Allergen Cysteine protease-like [Dermatophagoides
pteronyssinus]
TNAC SINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPEGIEYIQHNGVVQESYYRYVAQE QSCRRPNADRFGISNYCQIY
PPNVNKIEEALAQTHSAIAVIIGIKDLDAFRHYDGQTTIQEDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSFDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38371.1|Allergen Cysteine protease-like [Dermatophagoides
pteronyssinus]
TNAC SINGNAPASIDLRQMRTVTTIRMQGGCGSCWAFSGVAATESAYLAVRNQSLDLAEQ
ELVDCASQHGCHGDTIPQIEYIQHNGVVQESYYRYVAEEQSCRRPNADRFGISNYCQIY
PPNVNKIQEALAQTHSAIAVIIGIKDLDAFRHYDGETIIQQDNGYQTNYHAVNIVGYSNA
QGV DYWIVRNSFDTNWGDNGYGYFAANIDLMMIEEYPYVVIL

>accession|CAD38372.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLPVPGCHGNEPCIIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACHYMNCPVNGQQYDIKYTWNVVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIRD

>accession|CAD38373.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLPVPGCHGNEPCIIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACHYMNCPVNGQQYDIKYTWNVVPKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIQD

>accession|CAD38374.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLPVPGCHGNEPCIIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LEVDPVPGIDPNACHYMNCPVNGQQYDIKYTWNVVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>accession|CAD38375.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSKTAKIEIKASIDG
LSVDVPGIDPNACHYMNCPVNGQQYDIKYTWNVVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>accession|CAD38376.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGSEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACHYMNCPVNGQQYDIKYTWNVVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>accession|CAD38377.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGNEPCIIGRGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACHYMNCPVNGQQYDIKYTWNVVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>accession|CAD38378.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACNYMKCPVNGQQYDIKYTWNVVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIRD

>accession|CAD38379.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACNYMKCPVNGQQYDIKYTWNVVPKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIQD

>accession|CAD38381.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGNEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LEVDVPGIDPNACNYMKCPVNGQQYDIKYTWNVVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>accession|CAD38382.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKEVLVPGCHGSEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACNYMKCPVNGQQYDIKYTWNVVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>accession|CAD38383.1|Allergen mite allergen Der f II-like
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGNEPCIHSGKPFQLEALFEANQNSATAKIEIKASIDG
LSVDVPGIDPNACNYMKCPVNGQQYDIKYTWNVVPKIAPNSENVVVTVKVLGDNGVLACA
IATHAKIQD

>accession|CAD38384.1|Allergen Group V allergen-like protein product
[Phleum pratense]
ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLEKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSKAALTSKLDAAAYKLAYKTAEGATP
EAKYDAYVATVSSALRIIAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEEAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE

TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38385.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKFAEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSSALRI IAGTLEVHAVKPA AEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38386.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKFAEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSEALSIIAGTLEVHAVKPA AEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38387.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKFAEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSEALRKIIAGTLEVHAVKPA AEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38388.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKFAEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSSALRI IAGTLEVHAVKPA AEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38389.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKFAEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSSALRI IAGTLEVHAVKPA AEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEAAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38390.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKFAEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSSALRI IAGTLEVHAVKPA AEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEAAFNDAIKASTGGAYESYKFIFALEAAVKKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38391.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKFAEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP

EAKYDAYVATVSSALRI IAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEEAFNDAIKASTGGAYESYNFIPALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38392.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAF AEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSEALS I IAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEEAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38393.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKINAGFKAALAAAAGVP
PADKYNTFVATFGAASNKAF AEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSEALRK I IAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKITVFEEAFNDAIKASTGGAYESYKFIPALEAAVKKAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38394.1|Allergen Group V allergen-like protein product
[Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSSALRI I IAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEEAFNDAIKASTGGAYESYKF IGALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38395.1|Allergen Group 5 allergen-like [Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSSALRI I IAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANHKFTVFEEAFNDAIKASTGGAYESYNFIPALEAAVKQAYAATVATAPEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38396.1|Allergen Group 5 allergen-like [Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSSALRI I IAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEEAFNDAIKASTGGAYESYKF IGALEAAVKQAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38397.1|Allergen Group 5 allergen-like [Phleum pratense]

ADLGYGPATPAAPAAGYTPATPAAPAGAEPAGKATTEEQKLI EKKNAGFKAALAAAAGVP
PADKYRTFVATFGAASNKAF AEGLSGEPKGA AESSKAALTSKLD AAYKLAYKTAEGATP
EAKYDAYVATVSSALRI I IAGTLEVHAVKPAAEEVKVIPAGELQVIEKVDAAFKVAATAAN
AAPANDKFTVFEEAFNDAIKASTGGAYESYNFIPALEAAVKQAYAATVATAGEVKYTVFE
TAEKKAITAMSEAKKAAKPAAAATATATAAVGAATGAATAATGGYKV

>accession|CAD38166.1|Allergen putative nuclear transport factor 2
[Davidiella tassiana]

MSDFNIAIQQFTEFYKTFD TDRAQLAPLYRENSMLTFEQSPFLGTANIVGKLQELPFQR
IEHQVATVDAQPSNESGGILVVVSGALLVEEERRPMSYTQTFQLLPADGAYYVFNDFVRL
VYPAA

>accession|CAD38167.1|Allergen putative nuclear transport factor 2 [Alternaria alternata]
MSDFNAIAQQFVEFYKTFDGNRAGLGALYKEHSMLTFEAQGTQGSAAIVEKLQNLPFQE
IQHRTDTVDAQPSADDGILVLVTGALLLGGESKPMSFTQAFQLKNAEGNWFVLNDVFRVLV
YPAA

>accession|CAC84116.1|Putative peptidylprolyl isomerase (cyclophilin) [Betula pendula]
MASNPKVFFDMEVGGQPVGRIVMELYADTTTPRTAENFRALCTGEKGNRSGKPLHYKKSS
FHRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFIKKHTGPGILSMANAGPGTNGSQF
FICTAKTEWLDGKHVVFQVVEGLDIVKAIEKVGSSSGRTSKPVVVADCGQLS

>accession|AAM77471.1|Allergen major allergen alt a1 [Alternaria alternata]
MQFTTIIASLFAAAGLAAAAPLESRQDNASCPVTTKGDYVWKISEFYGRKPEGTYYNLSLGF
NIKATNGGTLDFTCSAQADKLEDHKWYSCGENSFMDFSFSDSDRSGLLLKQKVSDE

>accession|AAM73730.2|Putative vicilin-like protein [Anacardium occidentale]
MGPPTKFSFSLFLVSVLVLCLGFALAKIDPELKQCKHQCKVQRQYDEQQKEQCVKECEKY
YKEKKGREHEHEHEHEEWGTGGVDEPSTHEPAEKHLSQCMRQCERQEGGQQKQLCRFRCQ
ERYKKERGQHNYKREDEDEDEDEAEEDENPYVFEDEDFTTKVKTEQGVVLLPKFTQK
SKLLHALEKYRLAVLVANPQAFVVP SHMDADSIFFVSWGRGTITKILENKRESINVRQGD
IVSISSTGPFYIANNDENEKLYLVQFLRPVNLPGHFVVFHGPGENPESFYRAFSWEILE
AALKTSKDTLEKLFQDQGTIMKASKEQIRAMSRRGEGPKIWPFTTEESTGSFKLFKKDP
SQSNKYGQLFEAERIDYPPLEKLDMVSYANITKGGMSVPFYNSRATKIAIVVSGEGCVE
IACPHLSSSKSSHPSYKCLRIRKDTVFI VPAGHPFATVASGNENLEIVCFEVNAEGNI
RYTLGAKKNI IKVMEKEAKELAFKMEGEEVDKVFQKQDEEFFQGPWEWRKEKEGRADE

>accession|AAM83103.1|Allergen paramyosin allergen [Blomia tropicalis]
MAARSAKMYQSSRAGHGGDISIEYGTDLGALTRLEDKIRLLSEDLSESERELRQRVEREK
SDITVQLMNLTERLEETEGSSESVMENKRRDSELAKLRKLLLEDVHMESEETAHHLRQKH
QAAIQEMQDQLDQVQKAKNKSDKEKQKQAEVFEELLAQVETANKDKLVAQKTVEKLEYTV
HELNIKIEEINRTVVEVTAHRQRLSQENSELIKEVHEYKISLDNANHLKGQIAQQLEDTR
HRLEDEERKRSSLENHAHTLEVELESKLVQLEEESEARLELERQLTKANGDAASWKSKEYE
AELQAHVDEVEELRRKMAQKISEYGEQLEALLNKCSALEKQKARLQSEVEVLIMDLEKAT
AHAQALEKRVSQLEKINLDLKSLEEVSMLEQTQKDLRVKIADLQKLQHEYEKLRDQKE
ALARENKKLADDLAEAKSQLNDAHRIHEQEIEIKRLENEREELAAAYKEAETLRKQEEA
KNQRLTAELAQTRHDYKRLAQKEEIEALRKQYQIEIEQLNMRLAEAEAKLKTEVARLK
KKYQAQITELELSLDAANKANIDLQKTIKKQALQITGLQAHYDEVHRQLQQAQVLDQGLVGTQ
RRCQALTAELEEMRVNLEQALRAKRAEQMHEEAVVRVNELTINVNLASAKSKLETEFS
ALQNDYDEVHKELRISDERVQKLTIEVKSTKDLLESETERVTKLETIKKSLETEVRNLQI
RIEEVEANALAGGKRVIKLESRIRDVEIEVEEERRHAETEKMLRKKDHRVKELLLQNE
EDHKQIQLLQEMSDKLNKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAES
NLSFIRAKHRSWVTTSQVPGGTRQVVFVTEQESSNF

>accession|P81430.2|Allergen Pollen allergen Ole e 7 (Ole e VII) [Olea europaea]
APSQSTVTALLTSCVSYIDDQ

>accession|AAL07319.1|Putative Che a 1 allergen precursor [Chenopodium album]
MAKQAVFLLVGALCVLSLAGVANAAENHFVKVQGMVYCDTCRIQFMTRISTIMEGATVKL

ECRNITAGTQTFKAEAVTDKVGQYSIPVNGDFEDDICEIELVKSPNSECSEVSHDVYAKQ
SAKVSLSNNGEASDIRSANALGFMKEPLKECPEVLKELDLYDVKAN

>accession|AAM93157.1|Allergen trypsin inhibitor [Arachis hypogaea]
NYLHMLLALSVCFCFLVLGASSISFRQQPEENACQFQRLNAQRPDNRIESEGGYIETWNP
NNQEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQ
GRRHQSORPPRRFQGDQSQQQQDSHQKVHRFDEGDLIAVPTGVAFWYNDHDTDVVAVS
LTDTNNDNQLDQFPRRFNLAGNHEQEFLRYQQQSRRRS

>accession|BAC10663.1|Allergen serum albumin [Canis lupus familiaris]
MKWVTFISLFFLFSSAYSRGLVREAYKSEIAHRYNDLGEHFRGLVAVFSQYLQQCFP
EDHVKLAKAVTEFAKACAAEESGANCDKSLHTLFGDKLCTVASLRDKYGMADCCCEKQEP
DRNECFLAHKDDNPGFPPLVAPEPDALCAAFQDNEQLFLGKYLVEIARRHPYFYAPEL
YAQQYKGVFAECCQAADKAAACLGPKIEALREKVLSSAKERFKCASLQKFGDRAFKAWSV
ARLSQRFPAKADFAEISKVVTDLTKVHKECCHGDLLECADDRADLAKYMCENQDSISTKLK
ECCDKPVLEKSQCLAEVERDELPGDLPSLAADFVEDKEVCKNYQEAKDVFLGTFLYEYAR
RHPEYSVSLLLRLAKEYEATLEKCCATDDPPTCYAKVLDEFKPLVDEPQNLVKTNCLEFE
KLGEYGFQNALLVRYTKKAPQVSTPTLVEVSRKLGKVGTKCCKKPESERMSCAEDFLSVV
LNRLCVLHEKTPVSEKTKCCSESLVNRRCFSGLEVDETYVPKEFNAETFTFHADLCTL
PEAEKQVKKQATALVELLKHKPKATDEQLKTVMGDFGAFVEKCCAENKEGCFSEEGPKLV
AAAQAALV

>accession|CAD42710.1|Allergen hydrophobin [Davidiella tassiana]
MAFIKSLIASVAVAFAAPQGGASDNNKVEIDGQDSAPVCGNGQKVACCNSGEDLIGL
NCLSIPI LAIPIQKACGSNIAACCQTGDSEGNLLNLEANCLAIPL

>accession|AAN32987.1|Allergen pollen allergen Phl p 11 [Phleum
pratense]
DKGPGFVVVTGRVYCDPCRAGFETNVSHNVQGATVAVDRCRPFNGGESKLKAEATTDGLGWY
KIEIDQDHQEEICEVVLAKSPDTCSEIEEFRDRARVPLTSNNGIKQQGIRYANPIAFFR
KEPLKECGGILQAYDLRDAPEPT

>accession|BAC19997.1|Putative allergen RA5B precursor [Oryza sativa
(japonica cultivar-group)]
MASNKVVFVSVLLAVVSVLAATATMAEYHHQDQVVYTPGPLCQPGMGYPMYPLPRCRALV
KRQCVGRGTAAAAEQVRRDCCRQLAAVDDSWCRCEAISHMLGGIYRELGAPDVGHMSEV
FRGCRRGDLERAAASLPAFCNVDIPNGGGGVICYWLARSGY

>accession|BAC20650.1|Putative putative allergenic protein [Oryza sativa
(japonica cultivar-group)]
MAFIKVVFSVLLPVVVSMLVATTTMADHRGQVVYTPGQLCAAGRGYPMYPLPRCRALAKR
QCAGGAVDEQVRQDCCRQLAAIDDSFCRCPALSHMLVGMVKELGAPAKGQPMDEVFPGCR
RGDMKRVAASLPAFCNVDIPIGIGGVICYWLSYPMNPATGH

>accession|BAC20657.1|Putative allergen RA16 [Oryza sativa (japonica
cultivar-group)]
MASNKVVISALLVVVSVLAATTTMADHHQEQVVYTPGQLCQPGIGYPTYPLPRCRAVFK
RQCVAPGTVDEQVRRGCCRQLAAIDSSWCRCDALNHMLRIIYRESGAADAGHPMAEVFRG
CRRGDIERAAASLPAFCNVDIPNGVGGVICYWLPGTGY

>accession|CAD23374.1|Allergen tri s 4 allergen [Trichophyton
schoenleinii]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDDKDRPSG
WNLNLLKNGDISVLTDSVSEITWLGDTKVVYVNGTDSVEGGVGIWISDAKNFGNAYK

AGSVNGAFSGLKLAAGDKINFGVYGGQSTTKGDLYNEAAAKEAVSSARIYDGLFVRHWD
YVGTQFNAVFSGLTKNGDKYSFDGKLNVLQPVKYAESYPPFFGGSGDYDLSSDGKTVA
FMSKAPELPKANLTTSYIFLVPDGSRVAEPINKRNGPRTPOGIEGASSSPVFS
PDGKRIAYLQMATKNYESDRRVIHIAEVGSNKPVQRIASSWDRSPEAVKWSSDGR
TLYVTAEDHATGKLF^TL^TPADARDNHKPSVVKH^THDGSVSSFFYFIGSSKSVLISGNSLWSN
ALYQVATPGRPNRKL^FYANEHDP^ELKGLGPKDIEPLWVDGARTKIHSWIVKPTGFDKNK
VYPLAFLIHGGPQGSWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDIT
NDWGGAPYKDLVKIWEHV RDHIKYIDTDNGIAAGASFGGFMVNWIQGD^LGRKFKALV
SHDGT^FVGSSKIGTDELFFIEHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQ
LVIHNDSD^FRLSVAEGVGLFNVLQEKGI^PSRFLNFPDETHWVTKPENSLVWHQ
QVLGWINKWSGINKSNPKSIKLSDCPIEVIDHEAHSYFDY

>accession|CAD23611.1|Allergen trim 4 allergen [Arthroderma benhamiae]
MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPK^GELAVFHVSKYNFDKKDRPSG
WNLNLKNGDISVLT^TSDVSEITWLG^DGTKVVYVNGTDSVEGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAAGDKINFGVYGGQSTTKGDLYNEAAAKEAVSSARIYDGLFVRHWD
YVGTQFNAVFSGLTKNGDKYSFDGKLNVLQPVKYAESYPPFFGGSGDYDLSSDGKTVA
FMSKAPELPKANLTTSYIFLVPDGSRVAEPINKRNGPRTPOGIEGASSSPVFS
PDGKRIAYLQMATKNYESDRRVIHIAEVGSNKPVQRIASSWDRSPEAVKWSSDGR
TLYVTAEDHATGKLF^TL^TPADARDNHKPSVVKH^THDGSVSSFFYFIGSSKSVLISGNSLWSN
ALYQVATPGRPNRKL^FYANEHDP^ELKGLGPKDIEPLWVDGARTKIHSWIVKPTGFDKNK
VYPLAFLIHGGPQGSWGDSWSTRWNPRVWADQGYVVVAPNPTGSTGFGQKLTDDIT
NDWGGAPYKDLVKIWEHV RDHIKYIDTDNGIAAGASFGGFMVNWIQGD^LGRKFKALV
SHDGT^FVGSSKIGTDELFFIEHDFNGTFFEARQNYDRWDCSKPELVAKWSTPQ
LVIHNDSD^FRLSVAEGVGLFNVLQEKGI^PSRFLNFPDETHWVTKPENSLVWHQ
QVLGWINKWSGINKSNPKSIKLSDCPIEVIDHEAHSYFDY

>accession|CAD23613.1|Allergen trim 2 allergen [Arthroderma benhamiae]
NHDDVDYIEPDFVVRTSTNGTNL^TRQENVPSWGLARVGSKKAGGTTYYYDSSAGKGV
TAYIIDTGIDINHEDFGGRAK^WGKNFVDK^MDEDCNGHGTHVAGTVGGTKYGLAKGV
TTLVAVKVLDCDGSNSGVI^EGMEWAMREASGGNGTAKAAGKAVMNM^SLG^GPRS
QASNDAAKAISDAGIFMAVAAGNENMDAQHSSPASEPSVCTVAASTEDDGA
EFSNYGAVVDVYAPGKDITS LKPGGSTDTLSGTSMA^SPHVCGLGAYLIGL^GKQGGPGLCDTIKEMANEAIQR

>accession|CAD23614.1|Allergen trim 2 allergen [Arthroderma benhamiae]
FITKAIPIVLAALSAVNGAKILEAGPHAETIPNKYIVVMKKDVSDEAFSTHTT^WLSQNLN
RRLMRRSGSSKAMAGM^QNKYSLGGIFRAYSGEFDDAMIKDISNHDDVDYIEPDFVVRTST
NGTNL^TRQENVPSWGLARVGSKQAGGTTYYYDSSAGKGV
TAYVIDTGIDIEHEDFGGRAK^WGKNFVDQRDEDCNGHGTHVAGTVGGTKYGLAKSVSLVAVK
VLDCDGSNSGVI^RGMEWAMREASGGNGTAKAAGKSVNM^SLG^GPRSQASNDAARAISEAGIFMAVAAGNENMDAQHS
SPASEPSVCTVAASTEDDGAEFSNYGAVVDVYAPGKDITS LKPGGSTDTLSGTSMA^SPH
VCGLGAYLIGL^GKQGGPGLCDTIKQMANEAIQRPGEGTTGKLIY

>accession|P00630.3|Allergen Phospholipase A2 precursor
(Phosphatidylcholine 2-acylhydrolase) (Allergen Api m 1) (Api m I) [Apis mellifera]
MQVVLGSLFLLLSTSHGWQIRDRIGDNELEERIIYPGTLWCGHGKSSGPNELGRFKHT
DACCRTHDMCPDVMSAGESKHGLTNTASHTRLSCDCDDKFYDCLKNSADTISSYFVGKMY
FNLIDTKCYKLEHPVTGCGERTEGRCLHYTVDKSKPKVYQWFDLRKY

>accession|AAL91662.1|Allergen profilin [Prunus dulcis]
MSWQQYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFFPAFKPEEIAAILKDFDQPGTL
APTGLF^LGGTKY^MVIQGEAGAVIRGKKGSGGITVKKTNQALIIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>accession|AAL91665.1|Putative 2s albumin [Anacardium occidentale]
MAKFLLLLSAFVAVLLLVANASIYRAIVEVEEDSGREQSCQRQFEEQQRFRNCQRYVKQEV
QRGGRYNQREQESLRECCQELQEVDRRCRCQNLEQMVRQLQQQEIQIKGEEVRELYETASEL
PRICISISPSQGCQFQSSY

>accession|P83340.1|Allergen Major allergen Epi p 1 (Epi n I4625*)
[Epicoccum nigrum]
ADGIVAVELDTYRGSFXK

>accession|BAC23082.1|Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKFIAPMAFVAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGI IAAYQNPNASWKNRNLWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDFFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTDGDIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSIVHVN
GAKFIDTQNGRLRIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKNINLSDISLKLTSKGKIASCLNDNANGYF5
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>accession|BAC23083.1|Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAVEDQSAQIMLDSVVEKYLRNRSRLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGI IAAYQNPNASWKNRNLWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDFFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTDGDIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSIVHVN
GAKFIDTQNGRLRIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGKIASCLNDNANGYF5
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|BAC23084.1|Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGI IAAYQNPNASWKNRNLWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDFFSTGLIIQGLRLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTDGDIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSIVHVN
GAKFIDTQNGRLRIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGKIASCLNDNANGYF5
GHVIPACKNLSPSAKRKESKSHKHPKTVMVENMAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|P83181.1|Allergen RecName: Full=Pollen allergen Sal k 1;
AltName: Allergen=Sal k 1 [Salsola kali]
PTITIGGPEYRTIFFDAYLGTSYVIVIKEPAEEFTTISDAVK

>accession|P83332.1|Allergen RecName: Full=Thaumatococcus-like protein 1;
AltName: Full=PpAZ44; Flags: Precursor [Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTTLTGDKPKQLSLTGFELATG
ISRSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVS LVDGFNLPM SVAPQGGTGKCKASTCPADINKVCPAPLQVKGSDG SVIAC
KSACLAFNQPKYCCTPPNDK PETCPPPDYSKLFKTKQCPQAYSAYDDKSSTFTCSGRPAY
LITFCP

>accession|P83335.1|Allergen RecName: Full=Thaumatococcus danianus protein 2;
AltName: Full=PpAZ8; Flags: Precursor [Prunus persica]
MMKTLGAVLSLSLTLSSFGGAHAATMSFKNNCPYTVWPASFGNPQLSTTGFEELASQASFQ
LDTPVPWSGRFWARTRCSTDASGKFCVETADCDGQMLCNGKTGIPPATLAEFTIAAGGG
QDFYDVSLLVDGFNLPMSVTPQGGTGTCKMGSCAANVNLVCPSELQKIGSDGSSVVACLSAC
VKFGEPQYCCTPPQETKEKCPPTNYSQIFHEQCPDAYSYAFDDNKGLFTCSGGPNYLITF
CP

>accession|P83377.1|Allergen Venom allergen 5 (Antigen 5) (Ag5) (Allergen
Pol g 5) [Polistes gallicus]
NDYCKIKCSSGVHTVCQYGESTKPSKNCAGKVIKSVGPTEEEKKLIVEEHNFRFRQKVAQG
LETRGNPGPQPAASNMMNLVWNDEQAKIAQVWASQCQILVHDKCRNTEKYQVGQNIAYAG
SSNHFPSTKLIQLWENEVKDFNYNTGITNKNFGKVGHYTQMVWGNTKEVCGSLKYVEK
NMKIHLYLICNYGPAGNYLGGPIYTKK

>accession|AAN73248.1|Putative helix-loop-helix protein [Fusarium
culmorum]
MAGDHAGDQSFYDFLIEEPEMIAPTPPGQFPHQQPISSPNRTSRNTPLRPESTEIETHHH
ANHPPALPVLGMQLPVPPTVPESSRAQSRASLNLDIDLHLHAPSHPSHLSHGAPHEQEHA
HEIQRHRAHSAQSSAGLPPTGFASHLPPASSGPVSLGWNMYHVPPNLHLNANQFNFEVPG
HMNVSGHPHLEHSSSTNPNNSFHYEHNIVSPSSIHPSAHFDGEVPSQWDDSLGHGASTPK
VRTPSHHVSSNPWAEINEPTGGDNDNLAPVTRPRKPARARRQKKEPRKLSDASQGARSSS
TGGTAHSVSDAASPSSTSHQSRASLTSKASMTSAASTASSRKSRLRSASRTSKNTLDKP
NDTAEDRRTRASHNLVEKQYRNRLNAQFESLLHALPEQIRHGDNGGGNGNVDNESEQAND
LDRRVSKGEVLEMARRHIEALERERNQLGT

>accession|CAD12861.1|Putative profilin [Artemisia vulgaris]
MSWQTYVDDHLMCDIEGTGQHLTSAEIFGTDGTVWAKSASFPEFKPNEIDAIKEFNEAG
QLAPTGLFLGGAKYMIQGEAGAVIRGKKGAGGICIKKTGQAMVFGIYDEPVAPGQCNMV
VERLGDYLLDQGM

>accession|CAD12862.1|Putative profilin [Artemisia vulgaris]
MSWQTYVDDHLMCDIEGTGQHLTAAAILGLDGTWAKSDKFPEFKPEEMKGIINEFNEVG
TLAPTGLFLGGAKYMLQGEAGAVIRGKKGAGGICIKKTGQAMVMGIYDEPVAPGQCNMI
VERLGDYLVQNM

>accession|AAM10779.1|Putative trypsin [Blomia tropicalis]
MKVLVLFCLVSLAAAGPLKDALNKAQVDAFYAEGYIVGGSNAADGDAPYQVSLQRTSHFC
GGSIIADNYILTAHCIQGLSASSLTTRYNTLRHNSGGLTVKASRIIGHEKYDSNTIDND
IALIQTASKMSTGTTNAQAIKLPEQGSDDPKASSEVLITGWGTLSSGASSLPTKLQKVTVP
IVDRKTCNANYGAVGAEITDNMFCAGILNVGGKDACQGDSSGGPVAANGVLVAVSWGYG
AQAKYPGVYTRVGNYSWIKGKGVV

>accession|AAN76862.1|Allergen allergen Ana 0 2 [Anacardium occidentale]
LSVCFLLILFHGCLASRQEWQQDECQIDRLDALEPDNRVEYEAGTVEAWDPNHEQFRCAG
VALVRHTIQPNGLLLPQYSNAPQLIYVVQEGEGMTGISYPGCPETYQAPQQGRQQGQSGRF
QDRHQKIRRFRRGDI IAI PAGVAHWCYNEGNSPVVTVTLLDVSNSQNQLDRTPRKFHLAG
NPKDVFQQQQHQSRGRNLFSGFDTELLAEAFQVDERLIKQLKSEDNRGGIVKVKDDEL
VIRPSRSQSERGSESEEESEDEKRRWQORDNGIEETICTMRLKENINDPARADIYTPFVG
RLTTLNSLNLPIKWLQLSVEKGVLYKNALVLPHWNLNSHSIIYGCKGKGVQVVDNFGN
RVFDGEVREGQMLVVPQNFVAVKRAREERFEWISFKTNDRAMTSPLAGRTSVLGGMPFEEV
LANAFQISREDARKIKFNNQTTLTSGESHHMRDDA

>accession|CAD20556.1|Allergen putative invertase inhibitor precursor
[Platanus x acerifolia]
MKLSFSLCIIFFNLLLLLQAVISADIVQGTCKKVAQRSPNVNYDFCVKSLGADPKSHTAD
LQGLGVISANLAIQHGSKIQTFIGRILKSKVDPALKKYLNDVCVGLYADAKSSVQEAIAADF
KSKDYASANVKMSAALDDSVTCEDGFKEKKGIVSPVTKENKDYVQLTAISLAITKLLGA

>accession|AAN77576.1|Allergen allergen Ara h 2.02 [Arachis hypogaea]
MAKLTILVALALFLAAHASARQQWELQGDRCQSQLERANLRPCEQHLMQKIQRDEDSY
GRDPYSPSQDPYSPSQDPDRDPYSPSPYDRRGAGSSQHQERCCNELNEFENNQRCMCEA
LQQIMENQSDRLQGRQQEQQFKRELRNLPQQCGLRAPQRCDLEVESGGRDRY

>accession|AAN86249.1|Putative recombinant Ib pronapin precursor
[Brassica napus]
QPQKCQREFQEQHLRACQQWIRQQLAGSPFSENQWGPQQGPSLREQCCNELYQEDQVCV
CPTLKQAASVVRVQGHGPFQSTRIYQIAKNLPNVCNMKQIGTCPFIAI

>accession|AA015607.1|Putative glutathione S-transferase [Sarcoptes
scabiei type hominis]
MSSKPTLGYWDLRGLGQSIRILLTYAGVDFVDKRYKIGSAPDFDRGEWLNDKFNGLGLDFP
NLPYYIEGDVKLTQSIAILRYLGRKHKLDGQNEQEWRRITLCEQQIMDLLMALARICYDP
NFEKLLDLVAKLPDDLKLFKFLGDHQFVAGTNI SYIDFLVYEYLIRVKIFAPEIFTKF
PNLSYITRIESMPKISAYIKQQEPQLFNGPMAKWNTKY

>accession|AA015613.1|Putative major allergen 1 [Sarcoptes scabiei type
hominis]
FVELKKDKDLYSMKSNVKNRNEIFYENMDLEKNGKMNWYYKRNDRWTWNMDLDNAFNPRD
GTMKLQVKDRIYDIKLRKREFRYGDLHIEGNENALIKKGLHMSLVDPLTLNVLTKNDGI
VDMTLDLVSPNTKKAALKINSKKYDLHDGEITVSIFNPRMTWKHHTRKGMELNIDADI
TRKGLSITYSRKEPDDSTKVRYSRQGNQVSMEVDSKLI EGHANGTLTDGKIHVKGRESDF
EIESTYKVEDGKLMIEPTKTQNGKLEGLLSRKVP SHLVLET PRVKMMMKYDRFAPVKILK
LDYDGLNYEKHIDA EYEPSNHKYFTDGKS

>accession|AA015713.1|Allergen allergen Pen m 2 [Penaeus monodon]
MADAAVIEKLEAGFKKLEAATDCKSLLKKYLSKAVFDQLKEKKTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLF SPLFDPIIEDYHVGFKQTDKHPNKDFGDVNTFVNVDPEGKYV
ISTRVRCGRSMEGYFPNCLTEAQYKEMEAKVSS TLSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGDGLG
QVFRRLTSAVNEIEKRIPF SHHDLGFLTFCPTNLGTTARASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRMRGLTEFQAVKEMQDGILELIKMEKEM

>accession|CAD24068.1|Putative class I chitinase [Hevea brasiliensis
subsp. brasiliensis]
EQCGRQAGGALCPGGLCCSQYWCANTPEYCGSGCQSQCDGGVGGEGGCVDLGSII SRST
FEEMLKHRNNAACPAKGFYTYDAFISA AKAFPAFGTTGDVDTCKREIAAFFGQTS HATTG
GWPTAPDGPYAWGYCHKEELNQASSYCSPPAYPCAPGKKYYGRGPIQLSWNYNYGQCGQ
ALGLDLLNPNPLVATDRVISFKA AIWFWMTPQFPKPSCHD VITGQWSPTGHDISAGRAPG
YGVITNIINGGLECGSGWDARVEDRIGFYKRYCDMFGVGYGSNLDCYNQTPFGLG

>accession|CAD37201.1|Allergen profilin [Prunus persica]
MSWQAYVDDHLMCDIDGNRLTAAAILQDGSVWSQSATFFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLI EQGL

>accession|CAD37202.1|Allergen profilin [Prunus persica]

MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGILNDFNEPGSL
APTGLYLGGTKYMVIQGEFPAVIRGKKGPGGVTVKKSTLALLIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>accession|BAC53948.1|Allergen Der f 1 allergen preproenzyme
[Dermatophagoides farinae]
MKFVLAIASLLVSLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLSKYVEAN
KGAINHLSDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRLSLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQLVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRITIQHDNGYQPNYHAVNIVGYGSTQGVYWIWRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVIM

>accession|AAM19082.1|Putative 60 kDa allergen Der f 18p
[Dermatophagoides farinae]
MTRFSLTVLAVLAACFGSNIRPNVATLEPKTVCYYESWVHWRQEGEKMDPEDIDTSLCTH
IVYSYFGIDAATHEIKLLDEYLMKDLHDMEHFTQHKGNAMIAVGGSTMSDQFSKTA
AV EHYRETFVSTVDLMTRYGFDGVMIDWSGMQAKSDNF IKLLDKFDEKFAHTSFV
MVGVTLPATIASYDNYNIP AISNYVDFMNVLSLDYTGSWAHTVGHASPFPEQLKTLEAYH
KRGAPRHKMVMVAPFYARTWILEKMNKQDIGDKASGPGPRGQFTQTDGFLSYNELCVQI
QAETNAFTITRDHDNTAIYAVYVHSNHAEWISFEDRHTLGEKAKNITQQGYAGMSVYTL
SNEDVHGVCGDKNPLLHAIQSNYYHGVVTEPTVVTLPPVTHHTEHVTDIPGVFHCHEE
GFFRDKTYCATYYECKKGFDFLEKTVHHCANHLQAFDEVSRTCIDHTKIPGC

>accession|NP_776945.1|Allergen collagen alpha-2(I) chain precursor [Bos
taurus]
MLSFVDTRTLTLLAVTSCLATCQSLQEATARKGPSGDRGPRGERGPPGPPGRDGDGIPG
PPGPPGPPGPPGLGGNFAAQFDAKGGGPGPMGLMGRGPPGASGAPGPQGFQGGPPGEPGE
PGQTGPAGARGPPGPPGKAGEDGHPGKPRGPRGERGVVGPQARGFPPTPGLPGFKGIRGH
NGLDGLKQPGAPGVKGEFPGAPGENGTPGQTGARGLPGERGRVGPAGPAGARGSDGSVGP
VGPAGPIGSAGPPGFPAGPKGELGPVGNPAGPAGPRGEVGLPGLSGPVGPPGNPGA
NGLPGAAGLPGVAGAPGLPGRGIPGPVGAAGATGARGLVGEPPGAGSKGESGNKGE
PGAVGQPPGPPSGEEGKRGSTGEIGPAGPPGPPGLRGNPGRGLPGADGRAGVMGPAGS
RGATGPAGVRGPNDSGRPGEPGLMGRGFPSPGNIGPAGKEGPVGLPGIDGRPGPIGP
AGARGEPPNIGFPGPKGPSGDGPKAGEKGHAGLAGARGAPPDGNNGAQGGPPGLQGVQGG
KGEQGPAGPPGFQGLPAGTAGTAGKPKGERGIPGEFGLPAGARGERGPPGESGAAGP
TGPISGRGPPGPPGPDGNGKEPVGAPGTAGPSGSLPGERGAAGIPGGKGEKGETGL
RGDIGSPGRDARGAPGAI GAGPPAGANGDRGEAGPAGPAGPAGPRGSPGERGEVGPAGP
NGFAGPAGAAGQPGAKGERGTPGPKGENGVPVGTGPVGAAGPSGPNPAGPAGSRGDGGP
PGATGFPGAAGRTGPPGPSGISGPPGPPGAGKEGLRGRGDQGPVGRSGETGASGPPGF
VGEKGPSGEPGTAGPPGTPGPQGLLAPGFLGLPGRGERGLPGVAGSVGEPGPLGIAGP
PGARGPPGNVGNPGVNGAPGEAGRDGNPNDGPPGRDQPGHKGERGYPGNAGPVGAAGA
PGPQGPVGPVKGHNREGEPGAPAVGPAGAVGPRGSPGPGQIRGDKGEPGDKGPRGLPGL
KGNGLQGLPGLAGHHGDQGAPGAVGPAGPRGPPAGPSGPGAGKDGRIQPGAVGPAGIRGS
QGSQGPAGPPGPPGPPGPPGPPSGGGYEFGFDGDFYRADQPRSPSTSLRPKDYEV DATL
KSLNNQIETLLTPEGRKNPARTCRDLRLSHPEWSSGYYWIDPNQGC TMDAIKVYCDFSTGET
CIRAQPEDIPVKNWYRNSKAKKHVVVGETINGGTQFEYNVEGVTTKEMATQLAFMRLLAN
HASQNITYHCKNSIAYMDEETGNLKKAVILQGSNDVELVAEGNSRFTYTVLVDGCSKKTN
EWQKTIIEYKTNKPSRLPILDIAPLDIGGADQEIRLNIGPVCFK

>accession|NP_776953.1|Allergen alpha-S2-casein precursor [Bos taurus]
MKFFIFTCLLAVALAKNTMEHVSSEESIISQETYKQEKMAINPSKENLCSTFCKEVVR
NANEEYSIGSSSEESA EVATEEVKITVDDKH YQKALNEINQFYQKFPQYLQYLYQGP
IV LNPWDQVKRNAVPITPTLNREQLSTSEENSKKTVDMESTEVFTKKTCLTEEEKNRLN
FLK

KISQRYQKFALPQYLKTVYQHQAAMKPKWIQPKTKVIPYVRYL

>accession|AA024900.1|Allergen major pollen allergen Art v 1 precursor
[Artemisia vulgaris]
MAKCSYVFCVALLIFIVAIGEMEAAGSKLCEKTSKTYSGKCDNKKCDKKCIEWEKAQHGA
CHKREAGKESCFCYFDCSKSPPGATPAPPGAAPPPAAGGSPSPPADGGSPPPPADGGSP
VDGGSPPPPSTH

>accession|NP_776719.1|Allergen kappa-casein precursor [Bos taurus]
MMKSFFLVVTTILALTLPLFLGAQEQNQEQPIRCEKDERFFSDKIAKYIPIQYVLSRYPSYG
LNYQKQKPVALLINQFLPYYPYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHP
HPHLSFMAIPPKKNQDKTEIPTINTIASGEPTSTPTTEAVESTVATLEDSPEVIESPPEI
NTVQVTSTAV

>accession|AA025113.1|Allergen major allergen Mal d 1 [Malus x
domestica]
MGVFTYESEFTSVIPPARLNFNAFVLDADNLIPKIAQAVKSAEILEGDGGVGTIKKINFG
EGSTYSYVKHRIDGVDKENFVYKYSVIEGDAISETIEKISYETKLVASGSGSVIKSTSHY
HTKGDVEIKEEHVKAGKEKASHLFLKLIENYLLEHPDAYN

>accession|AA032314.1|Putative putative allergen I1 [Carya
illinoensis]
MARVAALLVALLFVANAAAFRTTITTTMEIDEDIDNPRRRGESCREQIQRQQYLNRCQDYL
RQQRSGGYDEDNQRQHFRQCCQQLSQMEEQCQCEGLRQAVRQQQEEGIRGEEMEEMVQ
CASDLPKECGISSRSCEIRRSWF

>accession|1N10_A|Allergen Chain A, Crystal Structure Of Phl P 1, A Major
Timothy Grass Pollen Allergen [Phleum pratense]
AIPKVPVPGPNITATYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVKPFPFGMTGCGN
TPIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNEEPIAPYHFDLSGHAFGAMAKK
DEQKLSAGELELQFRRVKCKYPEGKVTTFHVEKGSNPNYLALLVKYVNGDGDVVAVDIK
EKGKDKWIELKESWGAIWRIDTPDKLTGPFTVRYTTEGGTKTEAEDVIPEGWKADTSYES
K

>accession|1NLX_N|Allergen Chain N, Crystal Structure Of Phl P 6, A Major
Timothy Grass Pollen Allergen Co-Crystallized With Zinc [Phleum pratense]
MGKATTEEQKLIEDVNASFRAAMATTANVPPADKYKTFEAAFTVSSKRNLADAVSKAPQL
VPKLDEVYNAAYNAADHAAPEDKYEAFVLHFSEALRIIAGTPEVHAVKPGA

>accession|CAD20981.3|Putative putative heat shock protein [Malassezia
sympodialis]
MSSVVGLDIGNSSKIGVARARGVDIVSNEVSNRSTPSLVSFGQKARLLGEGAATAQTSN
FKNTVGSLSKRLIGRTFQDESIQTYEKPFFVNAELVDAKGEVGVKVRVFQNEEHIFSATQLLA
MYLGKLLDTTQNELGGSGVSDVLSVPIWFTDAQRRAMLHAAEIANLNPLRVMNEPTATA
LGYGITKTDLPEPDSPRNVIFVDIGHSSYQVSVVAFCKGQLTVLGAWADPNFGGRNFDRV
LMEHFAEEFKGKYKIDVFFNPKATFRLAAGCERLKKVLSANTLAQLNVEESLMNDIDAASQ
LKRDEFESLIAPYLERVNGPLDAALSQGLTKDEIHSVELVGGSSRVPALKERIAAAWYGK
PLSYTLNQDEAIVRGCTLACATLSPVFRVREFSVHDISSYPKIVSWEPADVPDEENELV
VFNTNPNPVPSTKILTFYRKEPFLSDATYADASTLPKGTNPWLGRVTIKNVAPNEKGEHSI
VKVKARLNLHGVLNVESAYTVDEIEKEEEVPPVDPNAAEDAEPKTEKKIVKKLQRKDDL
IVSGIGLLDPTLLAELKEREGQMYAADKLVADTEDRKNAL EYIYDTRSKLDERYATFVQ
SEEKELLLAMLAESD WLYTEEGEDATKSAYVSRLETQKVGAPIHFRWKEHEERPAAAA
QLREVVNKYMSVFENEPEKYDHLSDDDKTKVIEKAATVGVKWLDDYMYKQSELPKNVDPKL
TSEEILKKKDDVIYVCTPILTKPKPRVPVDTSKPEENAQTSNENEKQGDMDVD

>accession|CAD68071.1|Putative manganese superoxide dismutase
[Malassezia sympodialis]
PFYPIPSALPFPLPIHSLFSRRTRLFRFSRTAARAGTEHTLPPLPYEYNALEPFISADIM
MVHHGKHHQTYVNNLNASTKAYNDAVQAQDVLKQOMELLTAVKFNGGGHVNHALFWKTMAP
QSQGGGQLNDGPLKQAIKDFEFGDFEKFAAFTAKALGIQSGWCWLGLSKTGSGLDLVVAK
DQDTLTTTHPIIGWDGWEHAWYLQYKNDKASYLKQWWNVVNWSEAESRYSEGLKASL

>accession|AA045607.1|Putative beta-expansin 9 protein [Zea mays]
MGSLANNIMVVGAVLAALVVGSGCGPPKVPVPPGNITTTNYNGKWLRTARATWYGQPNGAGAP
DNGGACGIKVNLPYPYSGMTACGNVPIFKDGGKCGSCYEVRCCKEPECSGNPVTVFITDM
NYEPIAPYHFDLSGKAFGLAKPGLNDKLRHCGIMDVEFRVRCKYPAGQKIVFHIEKGC
NPNYVAVLVKVFVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPFSSIRLTS
ESGKKVIAKDIIIPANWRPDAVYTSNVQFY

>accession|AA045608.1|Putative beta-expansin 1 protein [Zea mays]
MGSLANNIMVVGAVLAALVAGSGCGPPKVPVPPGNITTTNYNGKWLRTARATWYGQPNGAGAP
DNGGACGIKVNLPYPYSGMTACGNVPIFKDGGKCGSCYEVRCCKEPECSGNPVTVYITDM
NYEPIAPYHFDLSGKAFGLAKPGLNDKIRHCGIMDVEFRVRCKYPAGQKIVFHIEKGC
NPNYLAVLVKYVADDGDIVLMEIQDKLSAEWKPMKLSWGAIWRMDTAKALKGPFSSIRLTS
ESGKKVIAKDVIPANWRPDAVYTSNVQFY

>accession|CAD69036.1|Allergen Der p 5-like protein product
[Dermatophagoides pteronyssinus]
MKFIIAFFVATLAVMTVSGEDKKHDYQNEFDLLEMERIHEQIKKGELALFYLQEQINHFE
EKPTKEMKDKIVAEMDTI IAMIDGVRGVLDRMLQRKDLDFEQYNLEMLKKSGLDILERDL
KKEEARVKNIEV

>accession|CAD46559.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHGDSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQEGGAVIRGKKGSGGVTVKKTGQALVFGIYEEPLTPGQCNMIVE
RLGDYLIQGL

>accession|CAD46560.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHGDSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIQEGPGVIRGKKGSGGVTVKKTSTMASLIGIYDEPMTGQCNMVVE
RLGDYLIQGL

>accession|CAD46561.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGYRLTAAAILGQDGSVWSQSASFPAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQEGPGAVIRGKKGSGGITIKKTSQALLIGIYDEPVTGQCNIVVE
RLGDYLIQGL

>accession|1L3P_A|Allergen Chain A, Crystal Structure Of The Functional
Domain Of The Major Grass Pollen Allergen Phl P 5b [Phleum pratense]
IPAGELQIIDKIDAAFKVAATAAATAPADDKFTVFEEAFNKAIKETTGGAYDITYKCIPSL
EAAVKQAYAATAAAPQVKYAVFEAALTKAITAMSEVQKVSQ

>accession|CAD80019.1|Putative Group 1 allergen-like [Plantago
lanceolata]
MVKLTQVAAILLIGAFFLIASSTSIATQTSHPAKFHVEGEVYCNVCHSRNLINELSERMAG
AQVQL

>accession|AA065960.1|Putative oleosin [Corylus avellana]

MAEHRQLQDPAHQPRSHQVKAATAATAGGSLLVPSGLILAGTVIALTLATPLFVIFSP
VLVPAVITVSLIIMGFLASGGFGVAAVTVLSWIYRYVTGRHPPGADQLDHARMKLASKAR
EMKDRAEQFGQHQHVTGSQGS

>accession|CAD82911.1|Allergen precursor Can f II [Canis familiaris]
STFCLGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLIKPWGHFRVFIHSM
SAKDGNLHGDILIPQDQCEKVSLTAFKTATSNNKFDLEYWGHNDLYLAEVDPKSYLILYM
INQYNDTSLVAHLMVRDLRQQDFLPAFESVCEDIGLHKDQIVVLSDDDRCCQGSRD

>accession|CAD82912.1|Allergen precursor Can f II [Canis familiaris]
QLLLTLVGLALICGLQAQEGNHEEPQGGLEELSGRWHSVALASNKSDLTTPWGHFRVFIH
SMSAKDVNLHGDILIPQDQCEKVSLTAFKTATSNNKFDLEYWGHNDLYLAEVDPKSYLIL
YMINQYNDTSLVAHLMVRDLRQQDFLPAFESVCEDIGLHKDQIVVLSDDDRCCQGSRD

>accession|CAD56944.1|Putative vitellogenin precursor [Apis mellifera]
MLLLLTLLLFAAGTVAADFQHNWQVGN EYTYLVR SRTL TSLGDLSDVHTGILIKALLTVQA
KDSNVLA AKVWNGQYARVQQSMPD GWETEISDQMLELRDLPISGKPFQIRMKHGLIRDLI
VDRDVPTWEVNILKSI VGLQVDTQGENAVKVNSVQVPTDDEPYASF KAMEDSVGGKCEV
LYDIAPLSDFVIHRSP ELPMP TLKGDGRHMEVIKIKNF D NCDQRIN YHFGMTD NSRLEP
GTNKNKGFFSRSSSTRIVISESLKHFTIQSSVTT SKMMVSPRLYDRQNGLVLSRMNLT LA
KMEKTSKPLPMVDNPESTGNLVYIYNNPFS DVEERRVSKTAMNSNQIVSDNSLSSSEEK L
KQDILNLRDTDISSSSSSISSSEENDFWQPKPTLEDAPQNSLLPNFVGYKKGKHIGKSGKVD
VINAAKELIFQIANELEEDASNIPVHATLEKFMILCNLMRTMNRKQISELESNMQISPNE L
KPNDKSQVIKQNTWTVFRDAITQTGTGPAFLT IKEWIERGTTKSMEANIMSKLPKTVRT
PTDSYIRSF FELLQNP KVSNEQFLNTAATLSFCEMI HNAQVNRKSIHNNYPVHTFGRLTS
KHDNSLYDEYIPFLERELRKAHQEKD SPRIQTYIMALGMIGEPKILSVFEPYLEGKQQMT
VFQRTL M VGS L G K L T E T N P K L A R S V L Y K I Y L N T M E S H E V R C T A V F L L M K T N P P L S M L Q R M
AEFTKLD TN RQVNSAVKSTIQSLM K L K S P E W K D L A K K A R S V N H L L T H E Y D Y E L S R G Y I D
EKILENQNIITHMILNYVGS EDSVIPRILYLTWYSSNGDIKVPSTKVLAMISSVKSFMEL
SLRSVKDRETIISAAEKIAEELKIVPEELVPLEGNLMINNKYALKFFPFDKHILDKLP TL
ISNYIEAVKEGKFMNVNMLD TYESVHSFPTETGLPFVYTFNVIKLT KTSGTVQAQINPDF
AFIVNSNLRLTF SKNVQGRVGFVTPFEHRHFISGIDSNLHVYAPL KISLDVNTPKGNMQW
KIWPMKGEEKSRLFHYSVVPFVSNHDILNLRPLSMEKGRPMIPDDNTSLALPKNEGPF R
LNVETAKTNEEMWELIDTEKLTDRLPYPWTMDNER YVKVDMYMNLEGEQKDPVIFSTSF D
SKVMTRPDT DSENWTPKMMAVEPTDKQANSKTRRQEMMREAGRGIESAKSYVVDVRVHVP
GESESETVLT LAWSESNVESKGRLLGFWRVEMPRSNADYEV CIGSQIMVSPETLLSYDEK
MDQPKMDFNVDIRYGNKCGKGERIDMNGKLRQSPRLKELVGATSIIKDCVEDMKRGNKI
LRTCQKAVVLSMLLDEVDISMEVPSDALIALYSQGLFSLSEIDNLDVSLDVSNPKNAGKK
KIDVRAKLNEYLDKADVIVNTPIMDAHFKDVKLSDFGFSTEDILD TADEDLLINN VFYED
ETSCMLDKTRAQTFDGDYPLRLGPCWHAVMTTYPRINPDNHNEKLH I PKDKSVSVLSRE
NEAGQKEVKVLLGSDKIKFVPGTTSQPEVFNGEKIVVSRNKAYQKVEENEIIFEIYKMG
DRFIGLTS DKFDVSLALDGERVMLKASEDYRYSVRGLCGNF DHDSTNDFVGPKNCLFRKP
EHFVASYALISNQCEGDSLNVAKSLQDHDCIRQERTQQRNVISDSESGRLDTEMSTWGYH
HNVNKHCTIHR TQVKETDDKICFTMRPVVSCASGCTAVETKSKPYKFHCMEKNEAAMK LK
KRIEKGANPDL SQKPVSTTEELTVPFVCKA

>accession|BAC66618.1|Putative parvalbumin [Scomber japonicus]
MAFASVLKDAEVTAAALD GCKAAGSFDHKKFFKACGLSGKSTDEVKKAFAIIDQDKSGFIE
EELKLF LQNFKAGARALS DAETKAF LKAGDSGDGKIGIDEFAAMIKG

>accession|AAL92578.1|Allergen allergen Ole e 10 [Olea europaea]
MRGTAGVPDQVPVPTPTPSVPTSSSPV PKPPTQGNKKWCVPKAEATDAQLQSNIDYVCSQS
GMDCGPIQANGACFNPTVRAHASYAMNSWYQSKGRNDFDCDFSGTGAITSSDPSNGSCS
FLS

>accession|AAL92870.1|Allergen pollen allergen Che a 2 [Chenopodium album]
MSWQTYVDDHLMCDIEGNHLSSAAILGHDGTVWAQSPSPQLKPEEVSAIMKDFNEPGSL
APTGLHLGGTKYMVIQGEFPGDVIRGKKGPGGVTIKKTNQALIIGIYGEPMTPGQCNMVVE
RIGDYLVEQGM

>accession|AAL92871.1|Putative pollen allergen Che a 3 [Chenopodium album]
MAAEDTPQDIADRERIFKRFDNNGDGKISSSELGDALKTLGSVTPDEVRRMMAEIDTDGD
GFISFDEFTDFARANRGLVKDVSKIF

>accession|CAD87529.1|Allergen phl p5a allergen precursor [Phleum pratense]
ADLGYGPATPAAPAAGYTPAAPAGAEPAGKATTEEQKLIKINAGFKAALAAAAGVPPAD
KYRTFVATFGAASNKAFAEGLSGEPKGAESSKAALTSKLDAAAYKLAYKTAEGATPEAK
YDAYVATLSEALRI IAGTLEVHAVKPAEEVKVIPAGELQVIEKVDAAFKVAATAANAAP
ANDKFTVFEEAFNNAIKASTGGAYESYKFI PALEAAVKQAYAATVATAPEVKYTVFETAL
KKAITAMSEAQAQKAAKAAAATATATS AVGAATGAATAATGGYKV

>accession|CAD87730.1|Putative allergen Len c 1.0101 [Lens culinaris]
SRSDQENPFIFKSNRFQTIYENENGHIRLLQRFDKRSKIFENLQNYRLLEYKSKPHTIFL
PQFTDADFILVVLVSGKAILTVLNSNDRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRVL
DLAIPVNRPGQLQSFLLSGTQNPQSFSLGFSKNILEAAFNTEYEEIEKVLLEEQEQKSQH
RRSLRDKRQEITNEDVIVKVSREQIEELSKNAKSSSKSVSSESEPFNLRSRNPIYSNKF
GKFFEITPEKNPQLQDLDFVNSVEIKEGSLLLPNYNSRAIVIVTVNEGKGFELVQQRN
ENQQEQREENDEEEQEEETTKQVQRYRARLSPGDVLVVPAGHPVAINASSDLNLI GFGI
NAKNNQRNFLAGEEDNVISQIQRPVKELAFPGSSREVDRLLTNQKQSHFANAQPLQIE

>accession|CAD87731.1|Putative allergen Len c 1.0102 [Lens culinaris]
SRSDQENPFIFKSNRFQTIYENENGHIRLLQKFDKRSKIFENLQNYRLLEYKSKPHTLFL
PQYTDADFILVVLVSGKAVLTVLNSNDRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRVL
DLAIPVNNPGQLESFLLSGTQNPQSFSLGFSKNILEAAFNTEYEEIEKVLLEDQEQEPPQH
RRSLRDRRQEINKENVIVKVSREQIKELSKNAKSSSKSVSSESEPFNLRSRNPIYSNKF
GKFFEITPEKNPQLQDLDFVNSVEIKEGSLLLPNYNSRAIVIVTVNEGKGYFELVQQRN
ENQREENDEEEQEEETSTQVQRYRAKLSPGDVFPVVPAGHPVAINASSDLNLI GFGINAK
NNQRNFLAGEEDNVISQIQRPVKELAFPGSSREVDRLLTNQKQSHFANAQPLQIE

>accession|O23878.1|Putative 13S globulin seed storage protein 1 precursor (Legumin-like protein 1) [Fagopyrum esculentum]
MSTKLILSFLSLCLMVLSCSAQLLPWRKQSRPHRGHQFHHQCDVQRLTASEPSRRVRS
EAGVTEIWDNDTPEFRACAGFVAVRVVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVVPGC
PETFQSESEFEYPPQSQRDQSRQSESEESSRGDQRTQSESEEF SRGDQRTQSESEEF S
RGDQRTQSESEEF SRGDQRTQSESEEF SRGDQHQKIFRIRDGDVIPSPAGVVQWTHND
GDNDLISITLYDANSFQNLQDGNVRNFFLAGQSKQSREDRRSQRQTREEGSDRQSRESDD
DEALLEANILTGFQDEILQEIFRNVDQETISKLRGDNDQRGFIVQARDLKLKRVPEEYEEE
LQREGRGDRKRGSGRSNGLEQAF CNLKFQNVNRPSRADVFNPRAGRINTVNSNNLP ILE
FIQLSAQHVVLYKNAI L GPRWNLNAHSALYVTRGEGRVQVVGDEGRSVFDDNVQRGQILV
VPQGFVAVL KAGREGLEWVELKNDDNAITSPIAGKTSVLRAIPVEVLANSYDISTKEAFR
LKNGRQEVVFLPFQSRDEKERERF

>accession|O23880.1|Putative 13S globulin seed storage protein 2 precursor (Legumin-like protein 2) [Fagopyrum esculentum]
MSTKLILSFLSLCLMVLSCSAQLWPWQKQGSRPHHGRQQHQFQHQCIDIQRLTASEPSRRV

RSEAGVTEIWDHDTPEFRCTGFVAVRVVIQPGLLLLPSYSNAPYITFVEQGRGVQGVVIP
GCPETFQSDSEFEY PQSQRGRHSRQSESEEESSRGDQHOKIFRIREGDVIPSPAGVVQWT
HNDGNDLLISVTLLDANSYHKQLDENVRSFFLAGQSORETREETEGSDRQSRESDDDEALLG
ANILSGFQDEILHELFRDVEDRETISKLRGENDQRGFIVQAQDLKLRVPQDFEEYEREREG
DRRRGQGGSGRSNGVEQGF CNLKFRRNFNTPTNTYVFNPRAGRINTVNSNSLP ILEFLQL
SAQHVVLYKNAIIGPRWNLNAHSALYVTRGEGRVQVVGDEGKSVFDDKVQRGQILVVPQG
FAVVLKAGREGLEWVELKNSGNAITSPIGGRTSVLRAIPVEVLANSYDISTKEAYKLKNG
RQEVEVFRPFQSRDEKERERFSIV

>accession|Q9XFM4.1|Putative 13S globulin seed storage protein 3
precursor (Legumin-like protein 3) (Allergen Fag e 1) [Fagopyrum
esculentum]

MSTKLILSFLCLMLVLS CSAQLLPWQKGQSRSPHHGHQQFQHQCIDIQRLTASEPSRRVRS
EAGVTEIWDHDTPEFR CAGFVAVRVVIQPGLLLLPSYSNAPYITFVEQGRGVQGVVVP GC
PETFQSGSEFEY PRSQDRSRQSESGESSRGDQRSRQSESEESSRGDQRSRQSESEEF S
RGDQHOKIFRIRDGDVIPSPAGVVQWTHNNGDNDLISITLYDANSFQNL DENVRNFFLA
GQSKQSREDRRSQRQTREETEGSDRQSRESQDDEALLEANILSGFEDEILQEIFRNVDQETI
SKLRGENDQRGFIVQARDLKL RVP EEEYEEELQRERGERDRKRGGSGRSNGLEQAF CNLKF RQ
NVNRPSRADVFNPRAGRINTVDSNNLP ILEFIQLSAQHVVLYKNAIIGPRWNLNAHSALY
VTRGEGRVQVVGDEGRSVFDDNVQRGQILVVPQGF AVVLKAGREGLEWVELKNDDNAITS
PIAGKTSVLRAIPVEVLANSYDISTKEAFRLKNGRQEVEVFRPFQSRDEKERERFSIV

>accession|AAP06493.1|Putative hypothetical protein, putative
Profilin/allergen [Schistosoma japonicum]
MSADSWDNHCVTYVANNKCLKNLCMTAIDGSHLGTSNPDFRIPPELILQLKSILDGGLDT
SIFFMGEKYIVLQHDS SCLVSR CGKSLIF YATGKICLVGQTVDDDQNNCTQGNFAISRM
RDHYERMGY

>accession|AAP13554.1|Allergen major allergen Per a 1.0105 [Periplaneta
americana]
NSARGEHGLDVADFLNEIHSIIGLPPFVPPSRRHARRGVINGLIDDVIAAILPVDELKAL
FQEKLETSPDFKALYDAIRSPEFQSIISTLNAMEPYQDLLQNL RDKGVVDVDFIELIRSL
FGLP

>accession|AA038859.1|Putative 11S globulin [Bertholletia excelsa]
MAKLFLLSLGIFLLFHCC LAIEYEQEELYECRIQRLTAQEPQYRLEAEAGVSEVWDYTDQ
QFRCAGVAALRNTIRPQGLLLPVYTNAPKLYYVTQGRGILGVLMPGCPETFQSMSQFQGS
REQEEERGRFQDQHOKVHHLKKGDI IAIPAGVALWCYNDGDEDLVTVLVQHTASDLNQLD
QNPRHFFLAGNIQRSQKQRGERYGLRGGQILADNVFKGFNMEALADVLGFGMDTETARK
VRGEDDQRGHIVRVEQGLK VIRPPRIREELEQQEGGGYNGLEETICSATFIQNIDNPAEA
DFYNPRAGRLTTVNSLKVPI LTF LQLSAMKGVLYENAMMAPLWRLNANSVVYAVRGEARV
QIVDHRGETVFDNLREGQM VVVPQNFVVVKQAGSRGF EWVFN TNDNALFSTAAGRTSP
LRGIPVGLANAYRLSQEEARRIKLNRDEAVL FQPGSRSRGRASA

>accession|AAP30720.1|Putative enolase [Rhodotorula mucilaginosa]
MAISKIHSRYVYDSRGNPTVEVELTTEKGTFRSIVPSGASTGVHEALELRDGDKSKWL GK
GVLKAVANVNDTIAPALIEANIDVADQAKIDEFLKLDGTPNKAKLGANAILGVSLAAAK
AGAAQKDVPLYKHIADISKAKEGKFVLPVPFQNVLNGGSHAGGDLAFQEFMIVPSGAPSF
SEGLRIGSEVYHHLKSLTKKKYQGSAGNVGDEGGVAPDIKTAKEALDLIVSAIEAAGYTG
QVDIAMDVASSEFYKDGLYDLDFKNPNSDKSKWITGPQLAELYEQLLNEYPIVSIEDPFA
EDDWEAWSHFFSKVEGKTQIVGDDLTVTNPIRIKKA IETKAADALLKVNQIGTLTESIQ
AANDSYAAGWGMVSHRSGETEDTFIADLSVGIRSGQTKTGAPARSERLAKLNQILRIE
ELGDKAIYAGKDFHKAHSL

>accession|Q9FSG7.1|Putative Thaumatin-like protein 1a precursor (Allergen Mal d 2) (Mdt11) (Pathogenesis-related protein 5a) (PR-5a) [Malus x domestica]
MMKSQVASLLGLTLAILFFSGAHAAKITFTNNCPNTVWPGLTGDQKPQLSLTGFELASK
ASRSVDAPSPWSGRFWRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYDVLVDGFNLPMSVAPQGGTGECKPSSCPANVNKVCAPLQVKAADGSGVISC
KSACLAFGDSKYCCTPPNNTPETCPPTSEIFEKQCPQAYSAYDDKNSTFTCSGGPDY
VITFCP

>accession|BAC76688.1|Putative 27K protein [Triticum aestivum]
GDVATGRGSEKVVHVAIYYEESLCPYSVRFVANHLFKAYRDGLLDAANLTLVPYGNVVRND
GTISCQHGPPEECLLNTVEACAIDAWPDVKVHLGFIYCVSDLVLLKNKHREWESCFQKQGLD
PKPVTECYKGERGHNLSLEYGRQTAELVPPHQFVPPWVVDGKPLYNDYGNFKAYICKAYK
GYPLLEACRSLGLEAHDDVYGR

>accession|NP_851341.1|Putative lactotransferrin [Bos taurus] [Bos taurus]
MKLFVPLLSSLGALGLCLAAPRKNVRWCTISQPEWFKCRRWQWRMCKLGAPSITCVRRAF
ALECIRAIKADAVTLDDGGMVFEAGRDPYKLRPVAAE IYGTKE SPQTHYYAVAVVKKG
SNFQDLQGRKSCHTGLGRSAGWIIPMGILRPYLSWTESLEPLQGAVAKFFSASCVPCI
DRQAYPNLCQLCKGEGENQCACSSREPYFGYSGAFKCLQDGAGDVAFVKETTVFENLPEK
ADRDQYELLCLNNSRAPVDAFKECHLAQVPSHAVVARSVDGKEDLIWLLSKAQEKFGKN
KSRSFQLFGSPPGQRDLLFKDSALGFLRIPSKVDSALYLGSRYLTTLKNLRETAEEVKAR
YTRVWCAVGPPEEQKCCQWSQQSGQNVTCATASTTDDCIVLVKGEADALNLDGGYIYT
AGKCGLVVLAENRKS SKHSSLDCVLRPTEGYLAVAVVKKANEGLTWNLSLKDCKSCHTAV
DRTAGWNI PMGLIVNQTGSCAFDEFFSQCSCAPGADPKSRLCALCAGDDQGLDKCVPNSKE
KYYGYTGAFRCLAEDVGVAFVKN DTVWENTNGESTADWAKNLNREDFRLLCLDGTRKPV
TEAQSCHLAVAPNHAVVSRSDRAAHVKQVLLHQALFGKNGKNC PKFCLFKSETKNLLF
NDNTECLAKLGGRPYEEYLGTEYVTAIANLKKCSTSPLEACAFLTR

>accession|NP_851372.1|Allergen casein alpha s1 [Bos taurus]
MKLLILTCLVAVALARPKHP IKHQGLPQEVNLNLLRFFVAPFPEVFGKEKVNELSKDIG
SESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHQKEDVPSERYLGYLEQLRLKKYK
VPQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWY
YVPLGTQYTDAPSFSDIPNP IGSENSEKTTMPLW

>accession|AAP37482.1|Allergen allergen Bet v 1x [Betula pendula]
MRVFNYKGETTSLIPLARLFK

>accession|AAP37470.1|Putative ENSP-like protein [Hevea brasiliensis]
MEFPETNNNPIITLSFLLCMLSLAYASETCDFPAIFNFGDSNSDTGGKAAAFYPLNPPYG
ETFFHRSTGRYSDGR LIIDFIAESFNLPYLSPYLSSLSGNFKHGADFATAGSTIKLPTTI
IPAHHGFS PFYLDVQYSQFRQFIPRSQFIRETGGIFAELVPEEYFEKALYTFDIGQNDL
TEGFLNLTVEEVNATVPDLVNSFSANVKKIYDLGARTFWIHNTGPIGCLSFILTYFPWAE
KDSAGCAKAYNEVAQHFNHKLKEIVAQLRKDLPLATFVHVDIYSVKYSLFSEPEKHGFEF
PLITCCGYGGKYNFSVTAPCGDVTVADDGTKIVVGSACPSVRVNWDGAHYTEAANEYFF
DQISTGAFSDPPVPLNMACHKTESLRTLASV

>accession|AAP37412.1|Putative venom serine protease precursor [Polistes dominulus]
MNCGKIILLFITIIIGVAKSREENCKCGWDNPSRIVNGVETEINEFPMVARLIYPSPGMYC
GGTIIITPQHIVTAAHCLQKYKRTNYTGIHVVVGEHDYTTDTETNVTKRYTIAEVTIHPNY
NSHNNDIAIVKTNERFEYSMKVGPVCLPFNYMTRNL TNETVTALGWGKLRNGQNSKVLRL
KVDLHVITREQCETHYGAAIANANLLCTFDVGRDACQNDSSGGPILWRSPTTDNLILVGVV

NFGRTCADDAPGGNARVTSFMFIHNATIGETYCKAD

>accession|AAM54365.1|Putative 2S albumin seed storage protein [Juglans nigra]

RHEARKCIFHTFSLTMARLATLAALLVALLFVANAAAFRTTITTTMEIDEDIDNPRRRGEG
CQEIQRQQNLNHCQYYLRQQSRSGGYDEDNQROHFQCCQQLSQIEEQCQCEGLRQAVR
RQQQQQGLRGEEMEEMVQSARDLPKECGISSQRCEIRRSWF

>accession|AAM54366.1|Putative vicilin seed storage protein [Juglans nigra]

GRDRQDPQQYHRCQRRCCIIEQSPERQRCQQRCEQYKEQQGRERGPEASPRRESKGR
EEEQQRHNPPYFHSQSIRSRHESEEGERVKYLERFAERTELLRGIENYRVVILDANPNTFM
LPHHKDAESVIVVTRGRATLTLVSQETRESFNLECGDVIRVPAGATEYVINQDSNERLEM
VKLLQPVNPNPGQVREYYAAGAKSPDQSYLRVFSNDILVAALNTPRDLRERFFDQQEQREG
VIIRASQEKLRALSQHAMSAGQRPWGRRSSGGPISLKSERPSYSNQFGQFFEACPEEHRQ
LQEMDVLVNYAEIKRGAMMVPHYNSKATVVVYVVEGTGRYEMACPHVSSQSFEDQGRREQ
EEEEESTGRFQKV TARLARGDIFVIPAGHPAIAITASQENENLRLLLGFGINGENNQRNFLAGQ
NSIINQLEREAKELSFNMPREEIEEIFESQMESYFVPTERQSRRGQGRDHPLASILGFAF
F

>accession|AAM78596.1|Allergen allergen Ara h 2 isoform [Arachis hypogaea]

LTILVAPALFLLAAHASARQQWELQGDRRCCSQSLERANLRPCEQHLMQKIQRDEDSYGRD
PSPSPQDPSPSPQDPDRRDPYSPSPYDRRGAGSSQHQRCCNELNEFENNQRMCCEALQQ
IMENQSDRLQGRQQEQQFKRELRLNPQQCGLRAPQRCDLEVESGGRDRY

>accession|AAP47226.1|Putative putative lipid transfer protein [Helianthus annuus]

MKGTSMGVAILAMIVMAQLMVHPSVAITCNDVTGNLTPCLPYLRSGGKPTPACCAGAKKL
LGATRTQADRRTACKCAKTAAPQLKVRPDMASSLPGKCGISTSIPINPNVNCNTIP

>accession|CAD92666.1|Allergen profilin [Cucumis melo]

MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFFPAFRLEEIAAILKDFDQPGTL
APTGLFLGGTKYMIQGEAGAVIRGKKGSGGITVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>accession|P80207.1|Putative Allergen Bra j 1-E (Bra j I) [Contains:
Allergen Bra j 1-E small chain; Allergen Bra j 1-E large chain] [Brassica juncea]

AGPFRFPRCRKEFQQAQHLRACQQWLHKQAMQSGSGPQPQGPQQRPPLLQCCNELHQEE
PLCVCPTLKGASKAVKQQIRQQGQQQQGQQQLQHEISRIYQTATHLPRVCNIPRVSICP
FQKTMPGPS

>accession|P81729.1|Putative Chitin-binding allergen Bra r 2 [Brassica rapa subsp. rapa]

QAGGQTCAGNICCSQYGYCGTTADYCSPDNNCQATYHYYNPAQNNWDLRAVSAYCSTWDA
DKPYSWRYGWTAFCGPAGPRCLRTNAAVTVR

>accession|P82946.1|Putative Major pollen allergen Dac g 4 [Dactylis glomerata]

DIYNYMEPYVSKVDPTDYFGNEQARTAWVDSGAQLGELS YGVLFNIQYVNYWFAP

>accession|P83507.1|Putative Major urinary protein (MUP) (Allergen Cav p 1) [Cavia porcellus]

SEINGDWNTIALSAD

>accession|AAP87281.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVGYGMQGNLPPVSEVIALYK
QSNIKRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNP SNANSWVQKNVRGFWSSV
LFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAILDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSSLEVVVSESGWPSAGAFATFDNGRITYLSNLI
QHVKGKTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKRPKYNLNFGAENWDIS
TEHNATILFLKSDM

>accession|AAP94213.1|Putative Humj1 [Humulus japonicus]
MKNLQHHNKIITFKTPDDSTTLELNHSHISLPHYHWEQCLDLKTGEIYYINWRNGMKAKEDP
RTTITEYNSNGSNGDYYYSEEDSSYDSESSSESSPPPATTSRESQYRGAEKDHLVVG
CKSCFMYFMVPKQVQECPKCCGQPLHFDRSQSGSQ

>accession|AAP96759.1|Allergen group 1 allergen Dac g 1.01 precursor
[Dactylis glomerata]
IPKVPPGNITATYGDKWLDAKSTWYGKPTGAGPKDNGGACGYKDVKAPFNGMTGCGNT
PIFKDGRGCGSCFEIKCTKPESCSGEAVTVHITDDNEEPIAPYHFDLSGHAFGSMACKGE
EQKLRSGAGELELQFRRVKCKYPEGKTLTFHVEKGSNPNYLALLVKYVDGDGDVVAVDIKE
KGKDKWIALKESWGAIWRVDTPKLTGPFTVRYTTEGGTKSEVEDVIPEGWKADTSYEAK

>accession|P81943.3|Putative RecName: Full=Allergen Api g 5; AltName:
Allergen=Api g 5 [Apium graveolens]
LPNPSGFVTCLSSISKSVYTPAINLKAVIADPVAKTAVVQAGATLGEVYYXIIYARVLWV
GNTTQKLEWIRSLHDYQSSFFPFFSA

>accession|AAQ08190.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
IRTVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>accession|AAQ08947.1|Allergen allergen Fra e 1.0101 [Fraxinus
excelsior]
EDVPQPPVSLFYVQGVYCDTCRAGFITELSEFIQAGVRLQCKDKENGKVTTFTEVGYTR
AEGLYSMVIERDHKNEFCEIVLLSSSRKDCDEIPTEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEVLPKCPQVYNKLGMYPPNM

>accession|AAQ10268.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
ILTVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>accession|AAQ10271.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
IWTVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDH
KNEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>accession|AAQ10274.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]

WTVSCDTCRAGFITELSEFIPGASVRLQCKDKENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWAKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPNM

>accession|AAQ10276.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
SYCDTCRAGFITELSEFIPGAGVRLQCKDGNGNITFTEVGYTRAEGLYSMLVERDHKNE
FCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTINPLGFFKKEALPKCAQVYN
KLGMYPPNM

>accession|AAQ10277.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
QAVYCDTCRAGFITELSEFIPGASVRLQCKDRENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPNM

>accession|AAQ10278.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
QDSYRDTCRAGFITELSEFIPGASVRLQCKDRENGDITFTEVGYTRAEGLYSMLVERDHK
NEFCEITLISSGRKDCDEIPTEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQV
YNKLGMYPPNM

>accession|AAQ10279.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
IRTVSQDTCCARFITELSEFIPGAGVRLQCKDGNGNVTFTEVGYTRAEGLYSMLIERDH
KNEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQ
VFNKLGMYPPDM

>accession|AAQ10280.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
IRTVFRVTCRARFITELSEFIPGAGVRLQCKDGNGNVTFTEVGYTRAEGLYSMLIERDH
KNEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQ
VFNKLGMYPPDM

>accession|AAQ10281.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
QDSYSGHCRARFITELSEFIPGAGVRLQCKDGNGNVTFTEVGYTRAEGLYSMLIERDH
NEFCEITLLSSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTINPLGFFKKEALPKCPQV
FNKLGMYPPDM

>accession|AAQ24541.1|Putative Blo t 1 allergen [Blomia tropicalis]
MKFLLVAALCALVAIGSCKPTREEIKTFEQFKKVFGKVYRNAEEEEARREHHFKEQLKWVE
EHNGIDGVEYAINESDMSSEQEFSFHLSGGGLNFTYMKMEAAKEPLINTYGSPLQNFDR
QKARLTRIRQQGSCGSCWAFAAAGVAESLYSIQKQOSIELSEQELVDCTYNRYDSSYQCN
GCGSGYSTAEAFKYMIRTLVEEENYPYNMRTQWCNPDVEGQRYHVSGYQQLRYQSSDEDV
MYTIQQHGPPVVIYMHGSNNYFRNLGNGVLRGVAYNDAYTDHAVILVWGTVQGVYWIIR
NSWGTGWGNGGYGYVERGHNSLGINNFVYATL

>accession|AAQ24542.1|Putative Blo t 3 allergen [Blomia tropicalis]
MKVLVLFCLVSLAAAGPLKDALNKAQVDAFYAEGYIVDGSNAADGDAPYQVSLQRTSHFC
GGSIIADNYILTAHCIQGLSASSLTIRYNTLRHNSGGLTVKASRIIGHEKYDSNTIDND
IALIQTASKMSTGTTNAQAIKLPQGSQDPKASSEVLITGWGTLSSGASSLPTKLQKVTVP
IVDRKTCNANYGAVGADITDNMFCAGILNVGGKDACQGDSGGPVAANGVLVGAWSWGYGC
AQAKYPGVYTRVGNYSWIKGKGVVP

>accession|AAQ24543.1|Allergen Blo t 4 allergen [Blomia tropicalis]
MIVELIVFSLALTIPYQTLASSPYSDPHFQHNKRVITHLMQWKVFDIADECERFLGPGY
GGVQVSPVNEHASLDRHPWYELYQPVSRYRIVSRSGTESQFRDMVHRCNKAGVRIYVDVVL
NHMTGPGQSGVGIDGTHYDGNMYPGIFPGPNDFHGHESCPTSNLDIQNYDDPTQARNCR
LSGLRDLKQSADYVRTKQADFLNHLIDIGVAGFRFDASKHMWPGDLQAIYSKLHHLNEKY
FPSNSNPFYIHEVIYSNNNAISISDYTKLGRSIEFHYYHEL CNVIRGNNK LKWLHNFQGP
WGMVPND DALIMVD SHDLQRGHTGQLGLNIN YFESRLLKVATAFMLAWPYGIPRVMSYR
WNQKIVNGKDENDWIGPPADGSGSILSVKPNSDLTCNQEWICEHRWKQIYNMVQFRNTAG
DEPVKNWWDNGDYQIAFSRGAKTFIAINLQNGQHLKQNLHTGLPSGNYCNLVTGNVHNGK
CSGQMVHVDGSGHAMISIGANADDHL

>accession|AAQ24545.1|Putative Blo t 7 allergen [Blomia tropicalis]
MKSTIVLLACFVGI AFSDDAANQLVDQVVDALKTQKGFDSMHVKGHTTELDQKIGLVTFK
GKLI IKDATVTGLSRAAGSDVKIHSNIELIVGLIQSHLTLDVDIGK LQIMFSAGLAAEG
PSVKDFHIDEFEAVRIHVHGLGPLDPFIDIIGDAIIXLAXSQVREMISXMMRPIIESEVK
KFLQNTTPAPAF

>accession|AAQ54603.1|Putative Gly d 2.03 [Glycyphagus domesticus]
MMKFIVL FALVAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP IKKGDPIDFKYSGTIPAITPKIKAEV
TAE LIGDHGILACGTVNGQVE

>accession|AAQ55550.1|Allergen allergen Lep d 12 [Lepidoglyphus
destructor]
MKSVLIFLVAIALFSANIVSADEQTTTRGRHTEPDDHHEKPTTHATHEETTSTQHHEEVT
TQTPHHEEKTTEETHHSDDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICSKSGSLWY
ITVMPCSIGTKFDPI SRNCVLDN

>accession|AAQ73484.1|Putative type 2 allergen Lep d 2.013
[Lepidoglyphus destructor]
MMKFIVL FALIAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP IKKGDPIDFKYSGTIPAITPKIKAEV
TAE LIGDHGILACGTVNGQVE

>accession|AAQ73486.1|Putative type 2 allergen Lep d 2.023
[Lepidoglyphus destructor]
MMKFIVL FALDAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP IKKGDPIDFKYSGTIPAITPKIKAEV
TAE LIGDHGILACGTVNGQVE

>accession|AAQ73487.1|Putative type 2 allergen Lep d 2.024
[Lepidoglyphus destructor]
MKFIVL FALVAVASAGMKFKDCGKGEVTELDITDCSGDFCVLHRGQSVTLDAKFVANQD
SAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP IKKGDPIDFKYSGTIPAITPKIKAEV
AELIGDHGILACGTVNGQVE

>accession|AAQ73488.1|Putative type 2 allergen Lep d 2.025
[Lepidoglyphus destructor]
MMKFIVL FALVAVASAGNMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKIIKCP IKKGDPIDFKYSGTIPAITPKIKAEV
TAE LIGDHGILACGTVNGQVE

>accession|AAQ73489.1|Putative type 2 allergen Lep d 2.031
[Lepidoglyphus destructor]
MMKFIVLFFALVAVASAGKMKFKDCGKGEVTELDITDCSGGFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKI IKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIIGDHGILACGTVNGQVE

>accession|AAQ73490.1|Putative type 2 allergen Lep d 2.035
[Lepidoglyphus destructor]
MMKFIVLFFALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKI IKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIIGDHGILACGTVNGQVE

>accession|AAQ73491.1|Putative type 2 allergen Lep d 2.039
[Lepidoglyphus destructor]
MMKFIVLFFALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKI IKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIIGDHGILACGTVNGQVE

>accession|AAQ73492.1|Putative type 2 allergen Lep d 2.042
[Lepidoglyphus destructor]
MMKFIVLFFALVAVASAGKMKFKDCGKGEVTELDITDCSGDFCVLHRGKSVTLDAKFVANQ
DSAKATIKVLAKVAGTQIQVPGFDTDGCKI IKCPIKKGDPIDFKYSGTIPAITPKIKAEV
TAEIIGDHGILACGTVNGTVE

>accession|AAQ73493.1|Putative type 2 allergen Lep d 5.02 [Lepidoglyphus
destructor]
MTGVKTHLEHELKRTDLNLFLEKFNLD EITATLNVLTKELTEVQKHVKA VESDEVDVAIPN
PDEFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFI
DSAKGHFERELKRADLNLA EKFN FESALSTGAVLHKDLTALATKVKAIETK

>accession|AAQ73494.1|Putative type 2 allergen Lep d 5.04 [Lepidoglyphus
destructor]
MTGVKTHLQHELKRTDLNLFLEKFNLD EITAPLNVLTKELTEVQKHVKA VESDEVAIPNPD
EFRNEFDRLLIHMTEEQFAKLEQALAHLSHQVTELEKSKSKELKAQILREISIGLDFIDS
AKGHFERELKRADLNLA EKFN FESALSTGAVLHKDLTALATKVKAIETK

>accession|1UHG_D|Allergen Chain D, Crystal Structure Of S-Ovalbumin At
1.9 Angstrom Resolution [Gallus gallus]
GSIGAASMEFCFDVFKELKVH HANENIFYCPIAIMSALAMVYLGAKDSTR TQINKVVRFD
KLPFGDXIEAQCGT SVNVHSSLRDILNQITKPN DVYSFSLASRLYAEERYPILPEYLQC
VKELYRGGLEPINFQTAADQARELINSWVESQTNGI IIRNVLPXSVDSQTAMVLVNAIVF
KGLWEKAFKDED TQAMPFRVTEQESKPVQMMYQIGLFRVASMASEKMKILELPFAXGTMS
MLVLLPDEVSGLEQLES IINFEKLT EWTSSNVMEERKIKVYLPRMKMEEKYNLTSVLMAM
GITDVFSSSANLSGISSAEXLKISQAVHAAHAEINEAGREVVGXAEAGVDAASVSEEFRA
DHPFLFCIKHIATNAVLFFGR CVSP

>accession|AAP15199.1|Putative profilin-like protein [Humulus scandens]
MSWQAYVDDHLMCEIDGQHLTAAAIIGHDGSVWAQSSTFPQFKPEEIAAIMKDFE EPGSL
APTGLHLGGIKYVMIMGEQGAVIRGKKGAGGITVKKTGAAMIIGIYDEPLTPGQCNMIVE
RLGDYLIDQNL

>accession|AAP15200.1|Putative profilin-like protein [Humulus scandens]
MSWQAYVDDHLMCEIDGNHLSAAAIIGHDGSVWAQSAAFPQLKPEEVTGIMNDFNEPGTL
APTGLYLGGTKYMVIQGEQAVIRGKKGAGGVTIKKTSQALIIGVYDEPMTGQCNMIVE

RLGDYLIDQGL

>accession|AAP15201.1|Allergen profilin-like protein [Ambrosia artemisiifolia]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGVVWAQSATFPQVKPEEITGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEFPAVIRGKKGPGGVTIKKTTMALIIGIYDEPMPAGQCNMIVE
RLGDYLLEQGF

>accession|AAP15202.1|Allergen profilin-like protein [Ambrosia artemisiifolia]
MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGVVWAQSATFPQVKPEEITGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEFPAVIRGKKGPGGVTIKKTTMSLIIGIYDEPMPGQCNMLVE
RPGDYLLLEQGF

>accession|AAP15203.1|Allergen profilin-like protein [Ambrosia artemisiifolia]
MSWQAYVDEHLMCDIEGTGHHLTSAAILGHDTVWAQSSNFPQFKPEEMKGIITEFDQAG
TLAPTGMFIAGAKYMLVQGEQGA VIRGKKGAGGICIKKGTQALVMGIYDEPVAPGQCNMV
VERLGDYLIDQGM

>accession|AAQ83588.1|Allergen allergen Fra e 1 [Fraxinus excelsior]
MEDVPQPPVSQFHIQGVYCDTCRARFITKLSEFITGASVRLQCRDKENGDVTFTEIGYT
RGEGLYSMFVERDHNKNEFCEITLLSSGRKDCNEIPIEGWVKPSLKFILNTVNGTTRTINP
LGFFKKEALPQCAQVYNKLGMYPPNM

>accession|AAQ91847.1|Allergen Ara h 8 allergen [Arachis hypogaea]
MGVFTFEDEITSTVPPAKLYNAMKDADSITPKIIDVKSVEIVEGNGGPGTIKKLITIVED
GETKFILHKVESIDEANYAYNYSVVGVALPPTAEKIFETKLVGEPNGGSIGKLTLYKH
TKGDAKPDEEELKKGKAKGEGLFRAIEGYVLNPTQY

>accession|AAN11300.1|Putative 29 kDa IgE-binding protein [Candida albicans]
MVKVLLALTSYNETFYSDGKKTGVFVVEALHPFEVFRKKGYEIQLASETGTFTGWDHDSV
PDFLNGEDKEIFDQNVSEFNVALKNLKKASDLDPNDYDIFFGSAGHGTLFDYPHAKDLQK
IATTVYNKGGVVS AVCHGPAIFENLNDPKTGEPLIKGKKITGFTDIGEDILGVTDIMKKG
NLLTIKQVAEKEGATYIEPEGPWDNFTVTDGRIVTGVNPPQSAVKTAEDVIAAFECN

>accession|AAN18044.1|Allergen major pollen allergen Ole e 1 [Olea europaea]
IGQVYCDTCRAGFITELSEFIPGASVRLQCKDKENGDTFTEVGYTRAEGLYSMLVERD
HKNFCEITLISSGRKDCNEIPTGEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNM

>accession|AAO22132.1|Allergen major pollen allergen Ole e 1 [Olea europaea]
SDSYCDTCRAGFITELSEFIPGASLRLQCKDKENGDTFTEVGYTRAEGLYSMLVERD
HKNFCEITLISSGRKDCNEIPTGEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNVTI

>accession|AAO22133.1|Allergen major pollen allergen Ole e 1 [Olea europaea]
RTVTGYCRAGFITELSEFIPGASLRLQCKDKENGDTFTEVGYTRAEGLYSMLVERD
HKNFCEITLISSGRKDCNEIPTGEGWVKPSLKFILNTVNGTTRTVNPLGFFKKEALPKCAQ
VYNKLGMYPPNHGMSR

>accession|AA033897.1|Allergen Ole e 3 allergen [Olea europaea]
EHERIFKRFDAGKDGKISSSELGETLKPLGSVTLEEIQRMMAEIDTDGDGFL

>accession|AA073464.1|Allergen HDM allergen [Dermatophagoides
pteronyssinus]

MSARTAKYMYRSSGAGASGDISVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLSERLEEAEGSSESVTEMNKKRDELAKLRKLLLEDVHMESEETAHHLRQKH
QAAVHEMQDQLDQLQKAKNKSDKEKQKQFAEVFELLSQLETANKEKLTALKSVEKLEYTV
HELNIKIEEINRTVIELTSHKQRLTQENTELIKEVHEVKLQLDNANHLKQQIAQQLEDTR
HRLEEEERKRSSLENHAHTLEVELESKLVQLDDESEARLELERQLTKANGDAASWKSKEYE
AELQAHADAVEELRRKMAQKISEYEEQLEALLNKSSLEKQKSRLQSEVEVLIMDLEKAA
AHAQQLEKRVAQLEKINLDLKDLEEVTMLMEQAQKELRIKIGELQKLQHEYEKVRDQRD
QLARENKLLTDDLAEAKSQLNDAHRRRIHEQEIEIKRLENERDELSAAYKEAETLRKQEEA
KNQRLIAELAQVRHDYKRLAQKDEEIEALRKQYQIEIEQLNMRLAEAEAKLKTEIARLK
KKYQAQITELSLDAANKANIDLQKTIKKQALQITELQAHYDEVHRQLQOAVDQLGVTQ
RRCQALQAELEEMRIALEQASRAKRQAEQLHEEAVVRVNELTINVNLASAKSKLESEF'S
ALQADYDEVHKELRISDERVQKLTIELKSTKDLLIEEQERLVKLETVKKSLQEVRTLHV
RIEEVEANALAGGKRVIKLESRIIRDVEIEVEEERRRHAETEKMLRKKDHRVKELLQNE
EDHKQIQLLQEMTDKLNKVKVYKRQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAES
NLSFIRAKHRSWVTTSQVPGGTRQVFTTQEETNY

>accession|AA091800.1|Allergen NADP-dependent mannitol dehydrogenase
[Alternaria alternata]

MPITVPQATELKDLSLKGKVVIVTGASGPTGIGTEAARGCAEYGADLAITYNSRAEGAE
KNAKEMSEKYGVKVKAYKQVNEYAQCEKLVQDVIKDFGKVDVFIANAGKTADNGILDAT
VEQWNEVIQTDLTGTFNCARAVGLHFREKRTGSLVITSSMSGHIANFPQEQASYNVAKAG
CIHLAKSLANEWRDFARVNSISPGYIDTGLSDFVPQDIQKLWHSMPMGRDAKATELKG
YVYFASDASSYCTGSDLLIDGGYCVR

>accession|AA091801.1|Allergen NADP-dependent mannitol dehydrogenase
[Davidiella tassiana]

MPGQQATKHESLLDQLSLKGKVVVVTGASGPKGMGIEAARGCAEMGAAVAITYASRAQGA
EENVKELEKTYGIKAKAYKQVDSYESCEKLVKDVVADFGQIDAFIANAGATADSGILDG
SVEAWNHVQVVDLNGTFHCAKAVGHHFKERGTGSLVITASMSGHIANFPQEQTSYNVAKA
GCIHMARSLANEWRDFARVNSISPGYIDTGLSDFVPKETQQWLWHSMPMGRDGLAKELKG
AYVYFASDASTYTTGADLLIDGGYTTR

>accession|AAP57094.1|Putative arginine kinase [Dermatophagoides
farinae]

MVDQAVIDKLEAGFQKLQSSAECHSLLKKYLTRNVLDACKGRKTGMGATLVDVVQSGFEN
LDSGVGLYAPDAESYTLFKELFDPVIEDYHKGFKPTDKHPQTDGFDVNTLCNVDPNNEFV
ISTRVRCGRSLQGYFPNCLTEAQYKEMEEKVKGQLNSFEGELKGTYYPLLGMKATQQQ
LIDDFLFLKEGDRFLQAAACRFWVPGRGIFHNDNKTFLIWVNEEHLRIISMQKGGDLK
QVFSRLINGVNHIKKLFPFSRDDRLGFLTFCPTNLGTTIRASVHIKLPKLAADRKXLEEV
AGKYNLQVRGTAGEHTESVGGVYDISNKRMRGLTEYQAVKEMQDGILELIKIEKSM

>accession|AAP35065.1|Allergen Der f Mal f 6 allergen [Dermatophagoides
farinae]

MALPRVFFDIAADNQPLGRIVIELRSDVVPKTAENFRALCTGEKGFVKSSSFHRIIPNF
MIQGGDFTNHNGTGGKSIYGNKFADENFTLQHTGPGIMSMANAGPNTNGSQFFITTVKTT
WLDGKHVVFGSVVEGMDIVKKVESYGSQSGKPSKKVTIANCGQL

>accession|AAP35069.1|Putative Blo t 8 allergen [Blomia tropicalis]

MAPLKIGYWDIRGFAEPIRMLLKHLNIEFEETRYGFGNDSEESFPNRDEWLAEKFTLGF
FPNLPYLFDFGDFKMTESVAILKRLARANGMIATTEPALSYSYEMIEAMVIDIRNRLVYVIY
AENSGTPEEFEQKLADLRERLETSLGQLEAFFQKHGSQWVAGDKLTYVDFLAYEYLDWYR
FVKSTPIFEKFAKVS DYMKRFEELPSLKEYIASDEHRSASCLSPFARIGHRWAKE

>accession|AAP35073.1|Allergen Der f 2 allergen [Dermatophagoides
farinae]
MVSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIHRGKPFLEALFDANQNTKT
AKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVPKIAPKSENVVVTVK
LVGDNGVLACAIATHGKIRD

>accession|AAP35075.1|Allergen Der f 1 allergen [Dermatophagoides
farinae]
MKFVLAIASLLVLSVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESLSKYVEAN
KGAINHLSLSDLSDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRLRT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRITIIQHDL

>accession|AAP35077.1|Allergen Der f 7 allergen [Dermatophagoides
farinae]
MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAIEQSETIDPMKVPDHADKFER
HVGILDFKGEELAMRNI EARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEIPDEGNITMTSFEVRQFANVNVHIGGLSILDPIFG
VLSDVLTAFQDQTVRKEMTKVLAPAFKRELEKN

>accession|AAP35078.1|Allergen Der f 13 allergen [Dermatophagoides
farinae]
MASIEGKYKLEKSEKFDEFDLDKLGVMVKTAATLKPTEFEVAIENDQYIFRSLSTFKNT
EAKFKLGEFEEDRADGKRVTVIQKEGDNKFVQTQFGDKEVKI IREFNGDEVVVTASCD
GVTSVRTYKRI

>accession|AAP35082.1|Allergen Der f Gal d 2 allergen [Dermatophagoides
farinae]
MKFFLLSFVLMVVAATATYAAHVGSGSRDNNNNKPVPAEGFAKASNEFGFHLKKEVIQHR
SSSGSRGSSENVLFSPPYSVAVALSMVHQGTQGSTAEQFKRVLYYDRVQQLNGGEYQTVAN
SVKQIQNQINQSDQSNQFDWGNMLMVDQMPVKDQYKKIIEQYYDGQVMSVDFRKEKSNV
MERINQFVSNKTHGLIDRMLEQPPSADTGLALINAVYFKGEWLKPFDSMRTEQSVFYGGH
GQYKQNVQYINGQGPYGYVEVPQWNSDLIQLPYKGEDIAFYGVLPREERNYDLDKIRQSIN
STFVDEIVGQITGSQSSTVYFVKIELSTSYQLPEILKSMGLQDVFTESADLSGITDKKPM
KIDDAIHAKLILNEQGTEAGAGTYIQMAVLSALETSHTFRFDHPFMYFIRHLPTGQILF
LGEIHDF

>accession|AAR17475.1|Putative elongation factor 1 beta-like
[Penicillium citrinum]
MGFTDFVSDAGLSLANNYLATRSYIVGHAPSQADVVTYKAFTASPD AEKYPHVARWYKHI
ASYESEFPPTLPGDASKAFTAYGPEGSEASANPKDKPAEEEEEEEDLFASDSEDEDPAVVAE
RNKNLEEYKKAAGKPKAAKSLVTLEVKPWDETNLEEELEANVRAIEMDGLVWGASKF
VAVGFGIKKLQINLVVEDEKVVSTDELQAQIEEDEDHVQSTDVAAAMQKL

>accession|AAR21071.1|Putative PR5 allergen Jun r 3.1 precursor
[Juniperus rigida]
MARVSELALLLVATLAISLHMQEAGAVKFDIKNQCGYTVWAAGLPGGGKRLDQGGQWTWLN
LAAGTASARFWGRTGCTFDASGKGSCKTGDCGGQLSCTVSGAVPATLAEYTDQSDQDYD

SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVEGGCNSACNVFQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>accession|AAR21072.1|Putative PR5 allergen Jun r 3.2 precursor
[Juniperus rigida]

MARVSELALLLVATLAIISLHMQEAGAVKFDIRNQCGYTVWAAGLPGGGKRLDQGQWTWLN
LAAGTASARFWGRTGCTFDASGKGSCKTGDCGGQLSCTVSGAVPATLAEYTSQSDQDYDV
SLVDGFNIPLAINPTNAQCTAPACKADINAVCPSELKVEGGCNSACNVFQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>accession|AAR21073.1|Putative PR5 allergen Cup s 3.1 precursor
[Cupressus sempervirens]

MARVSELALLLVATSAISLHMQEAGAVKFDIKNQCRYTVWAAGLPGGGKRLDQGQWTWVN
LAAGTASARFWGRTGCTFDASGKGSRSRSGDCGGQLSCTVSGAVPATLAEYTSQSDQDYDV
SLVDGFNIPLAINPTNTKCTAPACKADINAVCPSELKVDGGCNSACNVLQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>accession|AAR21074.1|Putative PR5 allergen Cup s 3.2 precursor
[Cupressus sempervirens]

MARVSELALLLVATLAIISLHMQEAGAVKFDIKNQCGYTVWAAGLPGGGKRLDQGQWTWVN
LAAGTASARFWGRTGCTFDASGKGSRSRSGDCGGQLSCTVSGAVPATLAEYTSQSDKDYDV
SLVDGFNIPLAINPTNTKCTAPACKADINAVCPSELKVDGGCNSACNVLQTDQYCCRNAY
VDNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP

>accession|AAR22488.1|Allergen allergen Mal d 3 [Malus x domestica]
MACSAVIKLALVVALCMAVSVAHAITCGQVTSSLAPCIGYVRSRGGAVPPACCNGIRTING
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNPYKISTSTNCATVK

>accession|1LLT_A|Allergen Chain A, Birch Pollen Allergen Bet V 1 Mutant
E45s [Betula pendula]

GVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISSVENISGNGGPGTIKKISFPE
GLPFKYVKDRVDEVDHTNFKNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEOVKASKEMGETLLRAVESYLLAHS DAYN

>accession|CAD21706.2|Putative Cu /Zn super-oxide dismutase [Olea
europaea]

MVKAFTVLSNSEGVTGTVYFTQEGDGPTTVTGNSGLKPLGHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|AAR92223.1|Allergen phytocystatin [Actinidia deliciosa]

MVPKPLSLLLFLLLALSAAVVGGRKLVAAGGWRPIESLNSAEVQDVAQFAVSEHNKQAND
ELQYQSVVRGYTQVVAGTNYRLVIAAKDGAVVGNYEAVVWDKPMHFRNLTSFRKV

>accession|P83542.1|Putative Phospholipase A1 (Allergen Pol g 1)
[Polistes gallicus]

GITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFKES

>accession|AAS02108.1|Putative FAD-linked oxidoreductase BG60 [Cynodon
dactylon]

MARSRAFAFALLICAVAASCHVALSAPPPYAKQVERDFLTCLTKDIPPRQLYAKSSPAYA
SVWSSTVRNIKFLSDKTVKPLYIITPTNASHIQAAVVCGRRHGMRIRVRSGGHDIYEGLSY
RSEKPEPFAVDMNKMRAVSIDGKAATAWVDSGAQLGDLYYGIKASPKLGFPAVCTTI
GVGGHFSGGGFMLLRKYGTAADNVIDAKVVDAQGRLLDRKAMGEDHFWAIRGGGGESFG

IVASWQVKLLPVPPKVTVFQVHKGIKEGAIDLVTKWQTVAPALPDDLIRIMAMGQGAMF
EALYLGTCCKDLVLLMTARFPELGMNATHCKEMTWIESVPYIPMGPKGTVRDLLNRTSNIK
AFGKYKSDYVLEPIPKSDWEKIFTWLVKPGAGVMIMDPYGGGIASVPESATPFPRRSGVL
FNIQYVVYVWFGEGAAALPTQWTRDIYDFMTPYVSKNPRQAYVNYRDLDLGVNQVVGNVST
YASGKVVGEKYFKGNFERLARTKKGIDPEDYFRNEQSIPPLL

>accession|CAE85467.1|Allergen putative latex allergen hev b 7.02 [Hevea
brasiliensis]

ATGSTTLTQGGKITVLSIDGGGIRGIIPGIILASLESKLQDLGPDARIADYFDIIAGTS
TGGLITTMLTAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEYL
RELCNNLLKDLTVKDTLTDVVIPTFDIKLLLPVIFSSDDAKCNALKNARLADVCISTSAA
PVLLPAHSFTTEDDKNIHTFELIDGGVAATNPTLLALTHIRNEIIRQNPRFIGANLTESK
SRLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNGNSPAVDIFSNASSDMVDFHLSALF
KSLDCEDYYLRIQDDTLTGEESGHIATEENLQRLVEIGTRLLEKQESRINLDTGRLES
PGASTNEAAITKFAKLLSEERKLRQLK

>accession|CAF25232.1|Putative Vicilin [Pisum sativum]

SRSDQENPFIFKSNRFQTLYENENGHIRLLQKFDKRSKIFENLQNYRLLEYKSKPHTLFL
PQYTDADFILVVLVSGKATLTVLKSNDNRNSFNLERGDAIKLPAGTIAYLANRDDNEDLRVL
DLAIPVNKPGQLQSFLLSGTQNPSSLSSGFSKNILEAAFNNTNYEEIEKVLLEQQEQEPQH
RRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKSVSSESGPFNLRSRNPIYSNKF
GKFFEITPEKNQQLQDLDFVNSVDIKEGSLLLPNYNSRAIVIVTVTEGKGFELVQQRN
ENQKENDKEEEEQEEETSKQVQLYRAKLSPGDVFVIPAGHPVAINASSDLNLIIGFGINAE
NNERNFLAGEEDNVISQVERPVKELAFPGSSSHEVDRLKLNQKQSYFANAQPLQRE

>accession|CAF25233.1|Putative Vicilin [Pisum sativum]

SRSDQENPFIFKSNRFQTLYENENGHIRLLQKFDKRSKIFENLQNYRLLEYKSKPRTLFL
PQCTDADFILVVLVSGKATLTVLKSNDNRNSFNLERGDTIKLPAGTIAYLANRDDNEDLRVL
DLTIPVNKPGQLQSFLLSGTQNPSSLSSGFSKNILEAAFNNTNYEEIEKVLLEQQEQEPQH
RRSLKDRRQEINEENVIVKVSREQIEELSKNAKSSSKSVSSESGPFNLRSRNPIYSNKF
GKFFEITPEKNQQLQDLDFVNSVDIKEGSLLLPNYNSRAIVIVTVTEGKGFELVQQRN
ENQKENDKEEEEQEEETSKQVQLYRAKLSPGDVFVIPAGHPVAINASSDLNLIIGFGINAE
NNERNFLAGEEDNVISQVERPVKELAFPGSSSHEVDRLKLNQKQSYFANAQPLQRE

>accession|Q9NJA9.1|Putative Paramyosin (Allergen Ani s 2) [Anisakis
simplex]

MSDTLYRSPMAIRSSTADMGALTSMSVADLGSLTRLEDKIRLLQDDFESERELRNRIER
ERADLSVQLIALTDRLQDAECATDSQIESNRKREVELSKLRKLLLEESQLENEDAMNVLK
KHQDVCLDYTEQIEQLQKKNKIDRERQRLQHEVIELTATIDQLQKDKHVAEKMAQKFEQ
QTIELSNKVEDLNKHVNDLAQQRQRLQAENSDLLAEIHDQKVQLDNLQHVKYQLAQQLEE
SRRRLEDAERERSQMQAQLHQVQLELDSVRVALDEESAARVEAEHKLSLANTEITQWKS
FDAEVALHHEEVEDLRKMMQKQAEYEEQIEIMLQKVSQLEKAKARLQSEVEVLIVDLEK
AQNTIAILERAKEQLEKQVLEMKSRIDELLVELEAAQREARAALAELOKMKQLYEKAVEQ
KEALARENKQLQDDLHEANEALADANRKLHELDLENARLAGEIRDLQVALKESEAARRDA
EARAQRALAELOQVRIEMERRLQEKKEEMEALRKSMQFEIDRLTAALADAEARMKAEIAR
LRKKYQAEIAELEMTVDNLNANRANLEAQTIKKQSEQIIQLQANLEDTQRQLQQTLDQYAL
AQRKISALSALAELECKTALDNARARQAADLEEAAHVRIISDLTSINSNLTAIKNKLETE
LSTAQADLDEVTKELHAADERANRALADAAVQELHHEEQEHSMKIDALRKSLEEQVKQL
QVQIQEAEAAALGGKRVIAKLETRIRDLEVALDEETRRHKETQSALRKKDRRIKEVQMQ
IDEEHKMFVMAQDADRMLEKLNQKRLGEGAEAMTMQNLQRVRRYQRELEDAEGRADQA
ESSLNLIRAKHRGTVAVGKATDVYVVEED

>accession|Q25632.1|Allergen RecName: Full=Tropomyosin; AltName:
Full=MOv-14; AltName: Full=Ov-tmy-1 [Onchocerca volvulus]

MDAIKKKMQAMKIEKDNALDRADAAEEKVRQMTEKLERIEEELRDTQKKMMQTENDLVKA
QEDLSVANTNLEDKEKKVQEAEEVAALNRRMTLLEELERAERLKIATDKLEEATHTA
DESERVRKVMENRSFQDEERANTVESQEKEAQLLAEEADRKYDEVARKLAMVEADLERAE
ERAEAGENEIVELEELRVVGNLKSLEVSEEKALQREDSYQEQIRTVSVRLKEAETRAE
FAERSVQKLQKKVDRLEDELVHEKERYKNISEELDQTFQELSGY

>accession|AAS47035.1|Allergen major cherry allergen Pru av 1.0201
[Prunus avium]
MGVFTYSDESTSVIPPPRLFKALVLEADTLIPKIA PQSVKTA EIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYNYTLVEGDALSDKIEKITYEIKLVASADGGSIKSTSN
YHTTG DVEIKEEDVKAGKEKATGLFKLIENYLAANPDACN

>accession|AAS47036.1|Allergen major cherry allergen Pru av 1.0202
[Prunus avium]
MGVFTYADESTSVIPPPRLFKALVLEADTLIPKIA PQSVKSA EIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYSYSLVEGDALSDKVEKISYEIKLVASADGGSIKSTSN
YHTTG DVEIKEEDVKAGKEKATGLFKLIENYLVANPDAYN

>accession|AAS47037.1|Allergen major cherry allergen Pru av 1.0203
[Prunus avium]
MGVFTYADESTSVITPPRLFKALVLEADTLIPKIA PQSVKGAEIVEGDGGVGTIKKISFG
EGSHYSYVKHRIDGLDKDNFVYSYSLVEGDALSDKVEKISYEIKLVASADGGSIKSTSN
YHTTG DVEIKEEDVRAGKEKATGLFKLIENYLVANPDAYN

>accession|CAF32566.2|Allergen Group 4 allergen-like [Phleum pratense]
YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYAIAHKASTVLAFFAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVFKIPKKASE
GAVDIINRWQVVAPQLPDDLIRVIAQGPATFEAMYLGTCQTLTPMMSSKFPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDLLNRNNTFKPFAEYKSDYVYEPFPKRVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFIQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITK GK
VDPTDYFRNEQSIPPLIKKY

>accession|CAF32567.2|Allergen Group 4 allergen-like [Phleum pratense]
YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYAIAHKASPVLAFAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVFKIPKKASE
GAVDIINRWQVVAPQLPDDLIRVIAQGPATFEAMYLGTCQTLTPMMSSKFPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDLLNRNNTFKPFAEYKSDYVYEPFPKEVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFIQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITK GK
VDPTDYFRNEQSIPPLIKKY

>accession|AAS67041.1|Putative venom phospholipase A1 1 precursor
[Polistes dominulus]
MNFKYSILFICFVKVLDNCAADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNG
IILKKEILKNYDLFQKSQISHQIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWK
KGACNAFASTNDVLGYSQAVGNTRHVKGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTS
GFAGKEVQRLKLGKYKEIIGLDPAGPSFLTNNKCPNRLCETDAEYVQAIHTSAILGVYYNV
GSVDFYVNYGKSQPGCSEPSCSHTKAVKYLTECIKRECCCLIGTPWKSYFSTPKPISQCKR
DTCVCVGLNAQSYPAKGSFYVPVDKDAPYCHNEGIKL

>accession|AAS67042.1|Putative venom phospholipase A1 2 precursor
[Polistes dominulus]
ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVKGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTNTKCPNRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPS
SHTKAVKYLTECIKRECCIGTPWKSYPSTPKPISQCKRDTCCVGLNAQSYPAKGSFYV
PVEKDAPYCHNEGIKL

>accession|AAS67043.1|Putative venom phospholipase A1 3 precursor
[Polistes dominulus]
ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVKGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTNTKCPNRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPS
SHTKAVKYLTECIKRECCIGTPWKSYPSTPKPISQCKRDTCCVGLNAQSYPAKGSFYV
PVDKDAPYCHNEGIKL

>accession|AAS67044.1|Putative venom phospholipase A1 4 precursor
[Polistes dominulus]
ADDLTTLRNGTLDRGITPDCTFNEKDIELHVYSRDKRNGIILKKEILKNYDLFQKSQISH
QIAILIHGFLSTGNNENFDAMAKALIEIDNFLVISVDWKKGACNAFASTNDVLGYSQAVG
NTRHVKGKYVADFTKLLVEQYKVPMSNIRLIGHSLGAHTSGFAGKEVQRLKLGKYKEIIGL
DPAGPSFLTNTKCPNRLCETDAEYVQAIHTSAILGVYYNVGSVDFYVNYGKSQPGCSEPS
SHTKAVKYLTECIKRECCIGTPWKSYPSTPKPISQCKRDTCCVGLNAQSYPAKGSFYV
PVEKDAPYCHNEGIKL

>accession|AAS75297.1|Allergen major allergen Alt a 1 subunit
[Alternaria alternata]
MQFTTIASLFAAAGLAAAAPLESRQDTASCPVTTEGDYVWKISEFYGRKPEGTYYNLSLGF
NIKATNGGTLDFTCQAQADKLEDHKWYSCGENSFMNFSFGSDRSGLLLKQKVSDDITYVA
TATLPNYCRAGNGPKDFVCQGVADAYITLVTLPKSS

>accession|BAD13150.1|Putative putative polcalcin Phl p 7 (Calcium-
binding pollen allergen Phl p 7) (P7) [Oryza sativa (japonica cultivar-
group)]
MAAASSADMERIFKRFDTNGDGKISLSELTDALRTLGSTSADEVQRMMAEIDTDGDGFID
FNEFISFCNANPGLMKDVAKVF

>accession|AAS75831.1|Putative group 2 allergen Sui m 2 [Suidasia
medanensis]
MKFIILAMFVAVAAAGEMKFQDCGHGEVKKLLVSDCSGDYCIHKGKKLSMEADFVANQD
SPTAVIKISAKVNGVELQVPGIETNGCHHMKCPLVKGQSYQFKYDLVIPQILPNVKADVT
ASLTGAHGLLACGTVHGEVQN

>accession|AAS77253.1|Putative Fel d 4 allergen [Felis catus]
MKLLLLCLGLILVCAHEEENVVRSNIDISKISGEWYSILLASDVKEKIEENGSMRVFVEH
IKALDNSSLSFVHTKENGKCTEIFLVADKTKDGVYTVVYDGYNVFSIVETVYDEYILLH
LLNFDKTRPFQLVEFYAREPDVSQKLKEKFKYKQEHGIVNILDLETVDRCLQARGSEVA
QDSSVE

>accession|CAG24374.1|Allergen Group 1 allergen-like [Phleum pratense]
IPKVPPGNITATYGGKWLDAKSTWYGKPTAAGPKDNGGACGYKDVKPPFSGMTGCGNT

PIFKSGRGCSCFEIKCTKPEACSGEPVVVHITDDNEEPIAAYHFDLSGIAFGSMAKKGD
EQKLSAGEVEIQFRRVKCKYPEGTVTFHVEKGSNPNYLALLVKFVAGDGDVVAVDIKE
KGKDKWIALKESWGAIWRIDTPEVLKGPFTVRYTTEGGTKGEAKDVIPEGWKADTCYESK

>accession|P83834.1|Allergen Pathogenesis-related protein (PR-1)
(Allergen Cuc m 3) [Cucumis melo]
DFVDAHNAARAQVGVGPVHWTVDAYARQYANDRNLVHSATR

>accession|AAS93669.1|Putative Sar s 1 allergen Yv5032C08 [Sarcoptes
scabiei type hominis]
MSFIRFFSIFLLCFVSVFLVARIECDEFEIKTFEQFKARFNKTYSNYFIETYRRRVFYRTL
KYVEENKHRGVSINAHADLTVNEFSAKYLSKAPKTEDLLDEYKLFSCDKFEGVKLGELDL
RKEGRVTKIREQLACGSCWAFSVTANVESLLLGSNCTRWS'TNDWLS'PQQLVDCASDHGCN
GEKTSTGLEIVVQHKGIVKEGVYPYKARVGVCKHPCGPYHFKSFCGISPPDPDQVKIALS
KTRSALSASIIIVYDVEHLKKNYNGKLP'PLADDGK'LIGEQLSHAINIVGYTQRNGVEVWIVRN
SWGETWGDHGYGYFKILPKRGVMGITRMVIVADLGKETVA

>accession|AAS93674.1|Putative Sar s 1 allergen SMIPP-C Yv4028C12
[Sarcoptes scabiei type hominis]
MERKQFNSSLYQLILSVAIITRGYYFETTPSIDDENVRLSDLDWIGEPDDSDFKLPDSFI
RKFKQDLMRDLNKKCRNHFSIIKLIHPGLQFCKVPKVYQALPTWFDLRNLELVTPTRDNS
TEKQCKASWAFGP'IASLES'AWLESHDRIASDAFSLSAQN'LIDCAGYQGCNGGVDVIEAFN
YLQEKGVVKEENYKYKGGKHACRWR'LFYRRYKIKSYCAICPATVETIKKFLFKHKTALTT
VISVRNLTAFKNIDDEILYEDEG'PSVQRR'LVVNI'GGWRHDDATDRDYWVVKNSWGRKWGM
GGYGFVDAEENLFGILDQNYLLSVKDEVIPFEAEPDDS

>accession|AAS93675.1|Putative Sar s 1 allergen SMIPP-C Yv5009F04
[Sarcoptes scabiei type hominis]
MESKKFKSFLFQLIISAAIITRGYYFETTPSDAEENARLSDVRYTGEPDDPDFKLPDSFI
QKFKKDLMRELTRKCRKGFRQARLEHPELQFCKIPKVFQKLPKWF'DLRNLELVTPTRDNS
TESKCKASWAFGPVASMESAWLESHDRIASDSFFLSPQNLIDCAGYQGC'DGGVDVIEAFN
YMKHKGIVKEEFYKYRAKKHRCRKLRRARRYKIRSYCAICPATIFTIKKFLFKHKTALTT
VISVRNLTAFKHIDDEILYEDEGTRVQRR'LVVNI'VGWRHDDATDRDYWVVKNSWGGKKWGM
GGYGFVDAENNPLHILDHNYLVRVKEDVIPFENEPEDFE

>accession|AAS93676.1|Putative Sar s 1 allergen SMIPP-C Yv6018B11
[Sarcoptes scabiei type hominis]
LMRELTRKCRKGFRRARLEHPELQFCEIPKVFQKLPKWF'DLRNLELVTPTRDNST'EKKCK
ASWAFGPVASMESAWLESHDRIASDSFFLSPQNLIDCAGYQGC'DGGVDVIEAFNYMKHKG
IVKEEFYKYKAKKHHCRKRLRRARRYKIRSYCAICPATIFTIKKFLFKLKTALTTVISVRN
LTAFKNIDDEILYEDEGPRVQRR'LVVNI'VGWRHDDATDRDYWVVKNSWGGKKWGMGGYGFV
DAENNPFHILDHNYLVRVKEDVIPFENEPEDFE

>accession|AAR98518.1|Putative major latex allergen Hev b 4 [Hevea
brasiliensis]
MASLAYSLSFILSLFTFTLLNPVCTELDEYLF'SFGDGLYDAGNAKFIYDPKYLPSYHHYPG
TTFDFDYPTGRFSDGRTVVDFVAENVS'LPRI'PPFKNKEANFTYGANFASEGATASDSNPLI
DFRSQIRDFGELKLEWAVQLVNVTELARRLKKA'VYLI'SFGADDYLN'YEIPSEASREQLES
IVDVVLGNISDRIKELYDFGARKFVVENVAPLGLIPFIKQTS'DNSTL'FYELASLHAMKLP
QILEKIQDGYL'FPEFN'YTVFN'YFGI'IK'EI'DAPGEHGFKYGDIACCGNSTYRGQACGFLD
YEF'CVCGNKTEYLF'FDGTHNTDAANNLLAELMWDKESGFISPYGVKDFFPSPPTTIQTLT
EATALG

>accession|AAS98889.1|Putative allergen Pen m 2 [Fenneropenaeus chinensis]
YNLQVRGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMQDGILELIKMEKEM

>accession|AAS98890.1|Putative allergen Pen m 2 [Fenneropenaeus chinensis]
YNLQARGTRGEHTEAEGGIYDISNKRRMGLTEFQAVKEMLDGILELIKMEKEM

>accession|AAT00594.1|Allergen conarachin [Arachis hypogaea]
GNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRRSTRSSDNEGVIVKVSKEHVQELTK
HAKSVSKKGSEEEEDITNPINLRDGEPLDLSNNFGRLFEVVKPDKKNPQLQDLDMMLTCVEIK
EGALMLPHFNSKAMVIVVVKGTGNLELVAVRKEQQQRGRREQWEEEEEEEEEGSNRE
VRRYTARLKEGDVFINPAAHPVAINASSELHLLGFGINAENNHRIFLAGDKDNVIDQIEK
QAKDLAFPGSGEQVEKLIKQRESHFVSARPOSQSPSSPEKEDQEEENQGGKGPLLSILK
AFN

>accession|AAT00595.1|Allergen conarachin [Arachis hypogaea]
LEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEGVIVKVSKEHVEELTKHA
KSVSKKGSEEEGDITNPINLREGEPDLSNNFGKLFVVKPDKKNPQLQDLDMMLTCVEIKE
GALMLPHFNSKAMVIVVVKGTGNLELVAVRKEQQQRGRREEEDEDQEEEGSNREVRRY
TARLKEGDVFINPAAHPVAINASSELHLLGFGINAENNHRIFLAGDKDNVIDQIEKQAKD
LAFPGSGEQVEKLIKQRESHFVSARPOSQSPSSPEKEDQEEENQGGKGPLLSILKAFN

>accession|AAT00596.1|Allergen conarachin [Arachis hypogaea]
GFDQRSRQFQNLQNHRIQIEAKPNTLVLPKHADADNILVIQQGQATVTVANGNNRKSFN
LDEGHALRIPSGFISYILNRHDNQLRVAKISMPVNTPGQFEDFFPASSRDQSSYLQGF
RNTLEAAFNAEFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEGVIVKVSKEHVEELT
KHAKSVSKKGSEEGDITNPINLREGEPDLSNNFGKLFVVKPDKKNPQLQDLDMMLTCVEI
KEGALMLPHFNSKAMVIVVVKGTGNLELVAVRKEQQQRGRREEEDEDQEEEGSNREVR
RYTARLKEGDVFINPAAHPVAINASSELHLLGFGINAENNHRIFLAGDKDNVIDQIEKQA
KDLAFPGSGEQVEKLIKQKESHFVSARPOSQSPSSPEKESPEKEDQEEENQGGKGPL
LSILKAFN

>accession|Q7M4I5.1|Allergen Phospholipase A2 (Phosphatidylcholine 2-acylhydrolase) [Apis dorsata]
IIYPGTLWCGHGNVSSSPDELGRFKHTDSCCRSHDMCPDVMSAGESKHGLTNTASHTRLS
CDCDDKFYDCLKNSSDTISSYFVGEMYFNILDTKCYKLEHPVTGCGKRTEGRCLNYTVDK
SKPKVYQWFDLRKY

>accession|Q7M4I6.1|Putative RecName: Full=Phospholipase A2; AltName:
Full=Phosphatidylcholine 2-acylhydrolase; AltName: Allergen=Bom p 1
[Bombus pennsylvanicus]
IIYPGTLWCGNGNIANGTNELGLWKETDACCRTTHDMCPDIEAHGSKHGLTNPADYTRLN
CECDEEFRHCLHNSGDAVSAAFVGRTYFTILGTQCFRLDYPIVKCKVKSTILRECKEYEF
DTNAPQKYQWFDVLSY

>accession|P83885.1|Allergen Allergen Ani s 4 [Anisakis simplex]
GMLGGSSDVDXNXP

>accession|Q7Z1K3.1|Allergen Major allergen Ani s 1 precursor (Excretory gland allergen Ans1) (21 kDa allergen) [Anisakis simplex]
MASMQHFSLAALLLAASICLGDADRTECQLPLDKGTPCTQEGGVKPSVAWWHDDKSGICL
SFKYTGCGGNANRFTTIKNCEQHCKMPDRGACALGKKPAEDSNGEQLVCAGMREDKCPNG
YQCKMMAFMGLCCPTKEEELFAREYEGVCKSGKPVKMDRGSWMMTILGKSCDDQFCPED

AKCERGLFANCK

>accession|Q7M1X5.1|Allergen Major pollen allergen Lol p 11 (Lol p XI)
[Lolium perenne]
DKGPGFVVTGRVYCDPCRAGFETNVSHNVEGATVAVDCRPFDDGGESKLLKAEATTDKDGWY
KIEIDQDHQEEICEVVLAKSPDKSCSEIEEFRDRARVPLTSNXGIKQQGIRYANPIAFFR
KEPLKECGGILQAY

>accession|Q7M1E7.1|Putative Polygalacturonase precursor (PG) (Pectinase)
(Major pollen allergen Cha o 2) [Chamaecyparis obtusa]
MGMKFMAAVAFLLALQLIVMAAAEDQSAQIMLDSIEQYLRNRSLLKLVHSRHDAATVFN
VEQYGAVGDGKHDSTEAFATTWNAACKKASAVLLVPANKKFFVNNLVFRGPCQPHLSFKV
DGTIVAQPDPARWKNKSIWLQFAQLTDFNLMTGVIDGQQQWWAGQCKVVNGRVTVCNDR
NRPTAIKIDYSKSVTVKELTLMNSPEFHLVFGCEGVKIQGLKIKAPRDSPTDGDIDIFA
SKRFHIEKCVIGTGDDCIAIGTGSSNITIKDLICGPGHGIGISGLGRDNSRAEVSHVHVN
RAKFIDTQNGLRIKTWQGGSLASYITYENMEMINSENPILINQFYCTSASACQNQRSVA
QIQGVTYKNIHGTSATAAAIQLMCSDSVPCTGIQLSNVSLKLTSGKPASCVDKNARGFYS
GRLIPTCKNLRPGSPKFEFELQQQPTTVMDENKGAACAKGDSTCISLSSPPNCKNKCKG
QPKPKLIIVHPNKPQDYYPQKWVCSCHNKIYNP

>accession|AAT40866.1|Putative tropomyosin [Tyrophagus putrescentiae]
MDAIKNKMQAMKLEEDNAIDRAEIAEQKARDANLKSEKTEEEVRLQKKIQIENELDQV
QENLTQATTKLEEKALQTAEDVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMKMLEHRSITDEERMDGLESQKLEARLMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKAQQREEAYEQQIRIMTSKLLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYESISDELDTQTFAEELTY

>accession|AAT45383.1|Putative parvalbumin [Lates calcarifer]
MAFSNVLSDSVAAALDGGCKDAGTFDHHKFFSACGLSNKTSDDVKKAFAIIDQDKSGFIE
EELKLFQNFKADARVLTVDVETSTFLKAGDTDGDKIGADEFTALVKP

>accession|AAT66566.1|Putative major allergen alt a1 [Stemphylium
vesicarium]
ALFAAAGLAAAAPFEARQADASCPVSTQGDYVWKISEFSGRKPEGTYYNLSFNKATNK
GTLDFTCQAQADKLEDDKFYSCGENSFMSFAFQSDRNGLLFRQDVSDEITYVATATLPNY
CHAGGNGPKDFVCQGVVS

>accession|AAT66567.1|Putative major allergen alt a1 [Stemphylium
callistephi]
TLFAAAGLAAAAPLEAPQANTTCPVSTQGDYVWKISEFSGRKPEGTYYNLSFNKATNG
GTLDFTCQAQADKLEEDKFYSCGENSFISFAFQSDRSGLLLRQDVSDEITYLATATLPNY
CRAGGNGPNDFICQGVVS

>accession|CAE52833.1|Allergen polygalacturonase [Platanus x acerifolia]
RGVQSSGSVFNVDYGAAGDISQAVMKAWKAACASQGPSTVLIPKGNYNMGEVAMQGP
CKGSKIGFQIDGVVAPADPSKFKSDGWVSFYRIDGLTVSGTGTLDGQQTAWAKNNCDK
NPNCKHAAMNLRDFDLKHAMVRDITSLNSKMFHINVLECEDITFQHVTVTAPGTSINTDG
IHVGISKGVTTNTKIATGDDCISIGPGSQNVTTITQVNCGPGHGIGISGLGRYNNEKEVR
GITVKGCTFSGMTMNGVRVKTWPNSPPGAATDLTFQDLTMNNVQNPVILDQEYCPYQCSR
QAPSRIKLSNINFNNIRGTSTGKVAVVIACSHGMPCSNMKIGEINLSYRGAGGPATSTCS
NVKPTFSGKQVPAIKCA

>accession|AA067349.2|Allergen oleosin [Corylus avellana]
MADRPQQLQVHPQRGHGHYEGGIKNQRGGGPSAVKVMVLAALPVGGLLALAGLTLA

VIGLLVTSPLFIIFSPVLVPAAIIVVGLAVASFLSSGALGLTGLSSLSWVLNLYLRCASQSL
PREMDQAKRRMQDMAAFVVGQKTREVGQEIQSRAQEGRRT

>accession|CAH03799.1|Allergen lipid transfer protein [Citrus sinensis]
ITCGQVTGSLAPCIVYLRSGGPIPVPCNGVRSLNAAARTTPDRQTACNCLKQAAGSIPN
LNPNNAVGLPRACGVSIPYKISISTDCSKVR

>accession|AAT77152.1|Putative arginine kinase [Periplaneta americana]
MVDAAVLEKLEAGFAKLAASDSKSLKLYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYFPNCLTEAQYKEMEDKVSSTLSGLEAELKGFYPLTGMTKEVQQK
LIDDFLFLKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGDLG
QVYRRLVTAVNDIEKRIPFSDHDLGFLTFCTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>accession|AAT80649.1|Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVTKLALVVALCMAVSVAHAITCGQVTSSLAPCIGYVRNGGAVPPACNGIRTINS
LARTTADRQTACNCLKNLAGSISGVNPNNAAGLPGKCGVNPYKISTSTNCATVK

>accession|AAT80659.1|Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVIKLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSGGPVPPACNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPNGNAESLPGKCGVNPYKISTSTNCATVK

>accession|AAT80662.1|Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSGGPVPPACNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPNGNAESLPGKCGVNPYKISTSTNCATVK

>accession|AAT80664.1|Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSVSDGPVPPACNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPNGNAESLPGKCGVNPYKISTSTNCATVK

>accession|AAT80665.1|Allergen lipid transfer protein precursor [Malus x domestica]
MASSAVINLALVVALCMAVSVAHAITCGQVSSNLVPCFDYVRSGGPVPPACNGIRTING
LAKTTPDRQAACNCLKSLAGSVSGVNPNGVESLPGKCGVNPYKISTSTNCATVK

>accession|AAT95008.1|Putative allergen Sol i 1 precursor [Solenopsis invicta]
MRKFAAIFVVFVQCTHLYSLAQARAEPDPGVVEYLKQSCVYGNSSYINVYLYNSRFQ GK
NLGNQQSCQDINASLPVVFITHGFTSSAQVSTFKDLANAFVQKGHTAFIVDWSEAACTDG
LPGVQFAEYNAAASNTYDIGQLMAKYTVDLMNKCKIPLNNIQYVGHSLGSHVCGFAAKHV
KKLINKTMPYILALDPADPSFGSNKCGERICKSDAKRIVVFKTSILGIGENIIGHLLIVF
DGGKSQPACSWYDVPCHSESIYVATGMVSGRCQH LAVPWAQQRINPIQWKFWRVFTSN
IPAYPTSDTTNCVVLNTNVFKNDNTFEGEYHAFPCARNLFKCRQQ

>accession|AAT95009.1|Allergen allergen Pol e 5 precursor [Polistes exclamans]
MEIGGLVYLVIIVVAIIHSSQGVYDYCKIRCPGSIHTVCQYGESTKPSKNCAGKVIKSVGPT
EEEKKLIVSEHNRFRQKVAQGLETRGNPGPQPAASDMNDLVWNEDELAHIAQVWASQCQFL
VHDKCRNTAKYPVQGONIAAYAGGSKLPDVVSLIKLWENEVVKDFNYNTGITKQNFAGHYT

QMVWGKTKEIGCGSLKYMENKMQNHYLICNYGPAGNYLGQLPNTKK

>accession|AAT95010.1|Allergen allergen Pol d 5 precursor [Polistes dominulus]

MKISCLICLVIVLTIHLSQANDYCKIKCSSGVHTVCQYGESTKPSKNCAGKLIKSVGPT
EEEEKLIVEEHNFRQKQVAKGLETRGNPGPQPAASNMMNLVWNEDELAKIAQVWASQCQIL
VHDKCRNTEKYQVGQNIAYAGSSNHFPSVTCLIQLWENEVKDFNYNTGITNKNFQKVGHY
TQMVWGNTKEVGCGLKYVEKNMQIHYLICNYGPAGNYLGQPIYTKK

>accession|BAD36780.1|Putative pilosulin 4 [Myrmecia banksi]

MKLSCLLLTLAIIFVLTIVHAPNVKAKALADPESDAVGFADAVGEADPFDDITKLNKIKLT
KATCKVISKGASMCKVLFDKKKQE

>accession|AAT99258.1|Putative pectin-methyltransferase precursor [Salsola kali]

MEEHVSMLLVGFVLINIAFTSIAQLIPPNPAELESWFQGAVKPVSEQKGLEPSVVQTESG
GVETIEVRQDGSQKFKTISDAVKHVKVGNTRKVIITIGPGEYREKVKIERLHPYITLYGI
DPKNRPTITFAGTAAEFQTVDSATVIVESDYSVGAHLIVTNSAPRPDGRKGAQAGALRI
SGDRAAFYNCKFTGFQDTCDDKGNHFFTDCTEGTVDFIFGEARSLYLNTELVVPGDP
MAMITAHARKNADGVGGYSFVHCKVTGTGGTALLGRAWFDAARVVSFYNLSDAAKPEGW
SDNNKPEAQKTIILFGEYKNTGPGAAPDKRAPYTKQLTEADAKTFTSLEYIEAAKWLPPPP
KV

>accession|Q9LD79.2|Putative Pathogenesis-related protein precursor

(Potential major pollen allergen Jun v 3) [Juniperus virginiana]

AFLAATLTISSHMQEAGAVKFDIKNQCGYTVWAAGLPGGGKRLDQQTWTVNLAAGTAS
ARFWGRTGCTFDASGKQSCQTDGCRQLSCTVSGAVPATLAEYTSQSDQDY

>accession|P15322.2|Allergen Allergen Sin a 1 precursor (Sin a I)

[Contains: Allergen Sin a 1 small chain; Allergen Sin a 1 large chain]

[Sinapis alba]

PAGPFRIPKCRKEFQQAQHLRACQQLHKKQAMQSGSGPSWTLDDDEFDFEDDMENPQGPQQ
RPPLLQCCNELHQEELPVCPTLKGASKAVKQQRQQLGQQGQQGPHLQHVVISRIYQTA
THLPKVCNIRQVSVCPFKKTMGPGS

>accession|AAU11502.1|Putative fatty acid-binding protein [Tyrophagus putrescentiae]

MVQLNGSYKLEKSDNFDAFLKELGVNFVTRNLAKSASPTVEVIVDGDSTYIKTSSTLKNS
EIKFKLGEEFEEDRADGKQVQTSVTKEGDNKLVQVQKGDKPVTIVREFSEEGTLVTATVN
GVTSVRFYKRQ

>accession|AAU21500.1|Putative oleosin 2, partial [Arachis hypogaea]

MTDRTQPHAVQVHTTAGRFGDTAAGTNRYADRGPSSTKVIIVITGLPIGGTLLLFAGLAL
AGTLLGLAVTTPFLFILFSPVIVPATIVVGLSVAGFLTSGACGLTGLSSFSWVMNYIRQTH
GSVPEQLEMAKHRMADVAGYVGQTKDVGQ

>accession|P84159.1|Allergen Germin-like protein (Allergen Cit s 1)

[Citrus sinensis]

TDPGHLQDVXVAINDPKXGVFVNRK

>accession|P84160.1|Allergen Nonspecific lipid-transfer protein (LTP)

(Allergen Cit 1 3) [Citrus limon]

ITCGQVTGSLAPXIPFLRTG

>accession|P84161.1|Allergen Nonspecific lipid-transfer protein (LTP)
(Allergen Cit s 3.0101) [Citrus sinensis]
ITXGQVTGSLAPXIAFLRTK

>accession|P67875.1|Allergen Ribonuclease mitogillin precursor (Major
allergen Asp f 1) (Asp f I) (Allergen I/a) (IgE-binding ribotoxin)
[Aspergillus fumigatus]
MVAIKNLFLLAATAVSVLAAPSPLDARATWTCINQQLNPKTNKWEDKRLLYSQAKAESNS
HHAPLSDGKTGSSYPHWFTNGYDGNKLIKGRTP IKFGKADCDRPPKHSQNGMGKDDHYL
LEFP TFPDGHYDFDSSKKPKEDPGPARVIYTYPNKVFCGIVAHQRGNQGLRLCSH

>accession|CAD54670.2|Allergen pollen allergen Phl p 4 [Phleum pratense]
SSCEVALSYPTPLAKEDFLRCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVK
PIYIVTPTNASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAV
WVDGKARTAWVDSGAQLGELYAIHKASPVLAFFPAGVCPTIGVGGNFAGGGFGMLLRKYG
IAAENVIDVKLV DANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVF
KIPKASEGAVDI INRWQVVAPQLPDDLIRVIAQGPATFEAMYLGTCTLTTPMSSKF
PELGMNASHCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKEV
WEQIFSTWLLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAA
PLSWSKEIYNYMEPYVSKNPRQAYANYRIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQ
RLAITKGKVDPTDYFRNEQSIPLIQKY

>accession|CAD54671.2|Allergen pollen allergen Phl p 4, partial [Phleum
pratense]
SSCQVAFSYFPPPAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVK
PLYIITPTNVSHIQSAVVCGRRHVSVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAV
WVDGKARTAWVDSGAQLGELYAIYKASPTLAFFPAGVCPTIGVGGNFAGGGFGMLLRKYG
IAAENVIDVKLV DANGKLDKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPPTVTF
KISKTVSEGAVDI INKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCKTLTPLMSSKF
PELGMNPSHCNEMSWIQSIPFVHLGHRDALEDDLLNRNNSFKPFAEYKSDYVYQFPFKTV
WEQILNTWLKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAA
PLSWSKDIYNYMEPYVSKNPRQAYANYRIDLGRNEVVNDVSTYASGKVWGQKYFKGNF
RLAITKGKVDPTDYFRNEQSIPLIKKY

>accession|AAV33670.1|Putative 18 kD winter accumulating protein A
[Morus bombycis]
MGVFTFDDEFTSTVAPARFFKAAVLDADNLFKPVAPQAAKSAETVEGNGGPGTVKKITLP
DGKYVKQRLDSIDHDNFTYGHSHIEGDVLSADIEKISHVTKFVASPSGGSIIKVTTFHT
VGDAPVDEAKAKEGKEKAAGLFLKLV EGYLEANPSAYN

>accession|AAV33672.1|Putative 18 kD winter accumulating protein C
[Morus bombycis]
MGVSTHNDEFTSTVAPARLFKAAVLDADNLFKPIAPDAAKSAENIEGNGGPGTIKKITFP
DGKYVKQKLD AIDLNDNYSYSHSHIEGDILSAELEKISHETKFVAAPGGGSVIKVTTFHT
VGNATVDEAKAKEGKEKAAGLFLKLV EGYLEANPSAYN

>accession|AAT37679.1|Putative vacuolar serine protease [Rhodotorula
mucilaginosa]
TMELLEDLIEQVRQLPMVNFIEKNSLVHANEFVAKGAPWGLARISHRDPLSLGSFDQYL
YDSNGGTGVTSYVIDTGVMVHHEQFEGRKWKGTIPQGEDDEDGNGHGHGTHCAGTIGSNAY
GVAKNAEIVAVKVLRSNGSGSMSDVIKGVFAVKSHQDSVKKGKNSFSTANMSLGGGKSP
ALDLAVNAAVKAGLHFVAAGNENQDACNTSPASAENAITVGASTISDARAYFSNYGKCV
DIFAPGLNILSTYIGSDAATAYLSGTSMASPHIAGLLTYLSQLPSSDSEFFIGAEGITP
AQLKKNLIAFGTDPVLADIPADTPNILAFNGAGQNLTKFWGH

>accession|AAV40850.1|Allergen lipid transfer protein 1 precursor
[Prunus persica]
MAYSAMTKLALVVALCMVSVPIAQAITCGQASSSLAPCIPYVRGGGAVPPACNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNNAAALPGKCGVSIPYKISASTNCATVK

>accession|P02604.3|Putative RecName: Full=Myosin light chain 1, skeletal
muscle isoform; AltName: Full=Alkali myosin light chain 1; Short=MLC-1;
AltName: Full=Myosin light chain 1f; AltName: Full=Myosin light chain
alkali 1; Short=Myosin light chain A1; AltName: Full=Skeletal-muscle
[Gallus gallus]
MAPKKDVKKPAAAAAPAPAPAPAPAPAPAKPKPAIDLKSIKIEFSKEQQDDFKEAFLLF
DRTGDAKITLSQVGDIVRALGQNPTNAEINKILGNPSKEEMNAKKITFEFELPMLQAAAN
NKDQGTTFEDFVEGLRVFDKEGNGTVMGAELRHVLATLGEKMTTEEVEELMKGQEDSNGCI
NYEAFVKHIMSV

>accession|CAH92627.1|Putative pollen allergen Sec c 4 [Secale cereale]
NYRAFALALLFCALSCQAAAAAYAPVPAKADFLGCLMKEIPARLLYAKSSPDYPTVLAQT
IRNSRWSSPQNPKPIYIITPTNASHIQSAVVCGRRHGIRLRVRSGGHDYEGLSYRSEKPE
TFAVVDLNMRAVSVVDGYARTAWVESGAQLGELYAIAKNPVLAFPAGVCPSIGVGGNF
AGGGFGMLLRKYGIAAENVIDVKVVDPNGLLKDSSMSADHFWAVRGGGGESFGIVVSWQ
VKLLPVPPTVTVLKIPKTVQEGAILVKNWQLVGPALPGDLMIRIILAGNSATFEAMYLG
TCSTLTPLMSSKFPELGMNPSHCNEMSWIKSIPFIHLGKQNLDDLNRNNTFKPF AEYKS
DYVYQPFKPVWEQIFGWLVKPGAGIMIMDPYGATISATPEAATPFPHRQGVLFNIQYVN
YWFAESAGAAPLQWSKDIYKFMEPYVSKNPRQAYANYRDIDLGRNEVVNDISTYSSGKVV
GEKYFKGNFQRLAITKGKVDQPQDYFRNEQSIPPLVEKY

>accession|CAH92630.1|Putative pollen allergen Sec c 4 [Secale cereale]
NSRAFALVPLLICVLSCHAAVSYAAAPVPAKEDFFGCLVKEIPARLLYAKSSPAFPTVLA
QTIRNSRWSSPQSVKPLYIITPTNASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSE
PEAFVVDLNMRAVVVDGKARTAWVDSGAQLGELYAIAKNPVLAFPAGVCPTIGVGG
NFAGGGFGMLLRKYGIAAENVIDVKVVDANGTLLDKSSMSADHFWAVRGGGGESFGIVVS
WQVKLLPVPPTVTVFKIPKTVQEGAVELINKWQLVAPALPDDLIRIIAFGGTAKFEAMY
LGTCKALTPLMSSRFPELGMNASHCNEMPWIKSVPFIFHLGKQATLSDLLNRNNTFKPFAE
YKSDYVYQVPKPVWAQIFVWLVKPGAGIMVMDPYGAAISATPEAATPFPHRKDVLFNIQ
YVNYWFDEAGGAAPLQWSKDMYRFMEPYVSKNPRQAYANYRDIDLGRNEVVNDISTYASG
KVVGEKYFKGNFQRLAITKGKVDQPQDYFRNEQSIPPLLGK

>accession|CAH92637.1|Allergen pollen allergen Lol p 4 [Lolium perenne]
AVVCGRRYDVRIRVRSGGHDYEGLSYRSLQPENFAVVDLNQMRVAVLVDGKARTAWVDSGA
QLGELYAISKYSRTLAFPAGVCPTIGVGGNLAGGGFGMLLRKYGIAAENVIDVKLVDAN
GKLDHKKSMGDDHFWAVRGGGGESFGIVVSWQVKLLPVPPTVTIFKIPKSVSEGAVDIIN
KWQLVAPQLPADLMIRI IAMGPKATFEAMYLGTCKTLTPMMQSKFPELGMNASHCNEMSW
IESIPFVHLGHRDSLEGDLLNRNNTFKPFAEYKSDYVYEPFPKSVWEQIFGTWLVKPGAG
IMIFDPYGATISATPEAATPFPHRKGVLFNQYVNYWFAPGAGAAPLSWSKEIYNMEPY
VSKNPRQAYANYRDIDLGRNEVVNGVSTYSSGKVVWGQKYFKGNFERLAITKGKVDPTDYF
RNE

>accession|CAI05848.1|Allergen mite allergen Der f 2 [Dermatophagoides
farinae]
MISKILCLSLVAAVVADQVDVKDCANHEIKKVMVDGCHGSDPCIIHRGKPFNLEAIFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>accession|CAI05849.1|Allergen Der f 2 [Dermatophagoides farinae]
MISKILCLSLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFLEALFDA
NQNTKTAKIEIKANINGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>accession|CAI05850.1|Allergen mite allergen Der f 2 [Dermatophagoides
farinae]
MISKILCLSLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFLEALFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLVGDNGVLACAIATHAKIRD

>accession|CAI23765.1|Allergen profilin [Citrus sinensis]
MSWQAYVDDHLMCDIDGNRLTAAAILGQDGSVWSQSATFPAPFRLEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEAGAVIRGKKGSGGIIVKKTNQALIIGIYDEPLTPGQCNMIVE
RLGDYLIEQGL

>accession|AAV74343.1|Allergen Fra e 1.0102 major allergen [Fraxinus
excelsior]
EDVPQPPVSLFYVQGVYCDTCRAGFITELSEFIQAGVRLQCKEKENGKVTTFTEVGYTR
AEGLYSMVIERDHKNEFCEIVLLSSSRKDCHEIPTEGWVKPSLKFILNTVNGTTRTINPL
GFFKKEALPKCPQVYNKLGMYPPNM

>accession|P84296.1|Putative Globin CTT-VIIB-4 precursor (Erythrocrucorin)
[Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTAEASLVQSSWKAVSHNEVDILAAVFAAYPDIQAKFPQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNASNAAAVEGLLNKLGSDHKARGVSAAQ
FGEFRTALVSYLSNHVSWGDNVAAAWNKALDNTMAVAVAHL

>accession|P84298.1|Putative Globin CTT-VIIB-5/CTT-VIIB-9 precursor
[Chironomus thummi thummi]
MKFFAVLALCIVGAIASPLTAEASLVQSSWKAVSHNEVEILAAVFAAYPDIQNKFSQFA
GKDLASIKDTGAFATHATRIVSFLSEVIALSGNTSNAAAVNSLVSKLGDDHKARGVSAAQ
FGEFRTALVAYLQANVSWGDNVAAAWNKALDNTFAIVVPERL

>accession|P02226.2|Putative Globin CTT-VIIA precursor [Chironomus thummi
thummi]
MKFFAVLALCIVGAIASPLSADQAALVKSTWAQVRNSEVEILAAVFTAYPDIQARFPQFA
GKDVASIKDTGAFATHAGRIVGFVSEIIALIGNESNAPAVQTLVGLAASHKARGISQAQ
FNEFRAGLVSYVSSNVAAWNAAEASAWTAGLDNIFGLLFAAL

>accession|BAD77932.1|Putative class IV chitinase [Cryptomeria japonica]
MQIMATQNSKSNIFWSSASVVLVLLLVLDVGVQCQNGCGLCCSQYGYCGSGEAYCGAG
CKEGPCSSSSPPSTGTGVSIVSSDVFNIVGGAASGCAGNGFYTYDSFISAANAFNGFG
TSGSSDVNKR EIAAFFANA AHE TGGFCYIEEQNPTSIYCDASNTQYPCASGKTYHGRGPL
QLSWNYNYGAAGSYIQFDGLNNEIVGTDSTISFKTAVWFMVNSNCHTAITSGQGFAT
IRAINSMCEDGGNAATVASRVNYYQKFCQQLNVDTGSNLQC

>accession|AAV97933.1|Putative parvalbumin beta-1 [Lates calcarifer]
MAFAGILNEADITAALAAACQAADSFKHKDFVVKVGLAGKSDDDVKKAFVAVIDQDKSGFIE
EDELKLFQNFASARAL TDAETKEFLKAGSDSDGDKIGVDEFAALVKV

>accession|AAW29810.1|Putative seed storage protein [Juglans regia]
MAKPILLSIYLFLIVALFNGCLAQSGGRQQQFQGCQLNRLDALEPTNRIEAEAGVIESW
DPNNQQFQCAGVAVVRR TIEPNGLLLPQYSNAPQLVYIARGRGITGVLFPGCPETFEESQ

RQSQQQSREFQODRHQKIRHFREGDIIAFPAGVAHWSYNDGNSNPVVAISLLDTNANNQ
LDQNPRNFYLAGNPDDEFPRPQQQEYEQHRRQQQRQQRPGEHGQQQRGLGNNVFSGFADAD
FLADAFNVDTETARRLQSENDHRRSIVRVEGRQLQVIRPRWSREEQEREERKERERERES
ESERRQSRGGRRDDNGLEETICTLRLRENIGDPSRADIYTEEAGRISTVNSHTLPVLRWL
QLSAERGALYSDALYVPHWNLNAHSVYALRGRAEVQVVDNFGQTVFDDELREGQLLTIP
QNFVAVKRARNEGFEVWSFKTNENAMVSPLAGRTSAIRALPEEVLATAFQIPREDARRLK
FNRQESTLVRSRPSRSRSSRSERRAEV

>accession|AAP13533.2|Allergen profilin [Cucumis melo var. reticulatus]
MSWQVYVDEHLMCEIEGNHLTSAAIIGQDGSVWAQSQNFPQLKPEEVAGIVGDFADPGTL
APTGLYIGGTYMVIQGEPGAIVIRGKKGPGGVTVKKTMALVIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>accession|CAE17316.1|Putative villin 1 [Nicotiana tabacum]
EGGKIEVWRINGSAKTPVPGDDIGKIFYSGDCYIVLYTYHCNDRKEDYYLCWWIGKDSVE
EDQNMAAKLASTMCNSLKPVLGRVYQKPEPPQFVAIFQPMLVLKGGSSGYKSYIADK
GLNDETYTADSVAILRSLGTSVHNNKAVQVDAVATSLNSNECFLLQSGSSVFSWHGNQST
YEQQQLAAKVAEFLKPGVTVKHAKEGTESSTFWFALGGKQSYTSKKIASEVARDPHLFAY
SFNKGKFEIEEIIYNFSQDDLLTEDVLLLDTHAEVFWVWGQSSDPKEKQSSFEVQKYIEM
AASLEGLSPHVPLYKVMENPCFFTTFFSWDPAKAIAGNSFQKKVMLLFGVGHASENQ
QRFNGTNQGGATQRASALAALNSAFSSSSPAKSSSAPRSAGKSPGSQRAAAIAALSSALS
AEKKQPPEGGSPRLRSRTSSVDAIAPGNEVSTAEIEDSKEVPERKEIETVEPAETDGEDV
GPKPEPEQDETGNSSQTTFSYERLKAENSENPVTGIDLKRREAYLSDEEFESVLEMTKEA
FYKLPKWKQDIHKKKVDLF

>accession|CAE17317.1|Putative villin 2 [Nicotiana tabacum]
REDYYLCWWIGKDSIEEDQSMARLASTMCNSFKGRPVLRVFGQKPEPPQFVAIFQPMLV
LKGGLSSGYKNYIADKGLNDETYAADSVALIRLSGTSVHNNKAVQVDAVPASLNSNECF
LQSGSSIFS WHGNQSTYEQQQLAAKVAEFLKPGATVKHTKEGTESSAFWFAVGGKQSYTS
KKVATEVSRDPHLFAYSFNKGKFEVEEIIYNFSQDDLLTEDILLLDTHAEVFWVWIGQSADS
KEKQSAFDVGVQKYVEMAASLEGLSPNVPLYKVTEGNEPCFFTTFFSWDPAKRSAGNSFQ
KKVMLLFGVGHASENQQRNSGSGGPTQRASALAALNSAFSSPSPKSSSAPRPAGTSSAS
QRAAAIAALSGVLTAEEKQSSSEGGSPVRSNRSSPVRSSRSPVRSADSGPTENDLSTAEV
QDSEKASEPKEIVEPAESNGSEPKPEAEQDEGGNESGQAIIFS YEQLKAKSDNPVTGIDFK
RREAYLSDEEFESVLGMKKEAFYKLPKWKQDMHKKRVDLF

>accession|AAW69549.1|Allergen profilin [Cucumis melo]
MSWQVYVDEHLMCEIEGNHLTSAAIIGQDGSVWAQSQNFPQLKPEEVAGIVGDFADPGTL
APTGLYIGGTYMVIQGEPGAIVIRGKKGPGGATVKKTMALVIGIYDEPMTPGQCNMIVE
RLGDYLIDQGL

>accession|CAG26895.1|Allergen Arg r 1 precursor [Argas reflexus]
MALIILLVACL SVVSADDCSGKTDAWTSIKGPKTGGYWLKQTTKTGENECTYVKGTDFKE
NTKTATYTYGYKDASGKLTKTGTATAKGSDIVVGSSTSTVIYTDGKTCDVVKHGGHTEL
VHSSKTSGGYNNCCDKKFTETRGSTPANEVYKCCPGMP

>accession|NP_001011564.1|Putative major royal jelly protein 8 precursor
[Apis mellifera]
MIRWLLL MYLGITCQGVTDIHSRNL TNSLKVIYEWKYIDYDFGSDEKRQAAIQSGDYNNT
MNYLLD TDQWGDKTFVIIMKFNGVPSLNVITNKTGNGGPLLAPYPDWTWAKNENCSGIT
SAYKIEIDMCDRLWVLD SGLINNVR SVCPPQLLVFDLNTS QLLKQVKIPHDIAVNTTTEK
GALVTL SVQLLSCEVNGSTLVYIGDNEGFALIIYNNSDNSFQRLTSSTFASDPRTYTTFTI
NGESFTLQSGIFGMALSPLTQNL YSALS SHNLNYVNTEQFVKSQYQANNVHYQGKENIL
WTQASAKGISDNGVLF FGLVGD TSLACWNNRLLDRRNIEVVAKNKETLQAITGLKVKRR

ISFILVHGFPLEYEYVLAVSNRIQKVIYGFDFNDVNFRIILIANVNDLIKNTRCISP

>accession|AAW81034.1|Putative profilin [Crocus sativus]
MSWQTYVDEHLMCDMDGHVLTSAAILGHDGSVWAQSAGFPPELKPAEITAILNDFNEPGSL
APTGMYINGAKYMVIQGEFVIRGKKGSGGVTIKKSNMALIFGLYDEPMTPGQCNLVVE
RLGDYLIEQGY

>accession|P69199.1|Putative Polcalcin Bra r 2 (Calcium-binding pollen
allergen Bra r 2) [Brassica rapa subsp. rapa]
MADATEKAEHDRIFKKFDANGDGKISASELGDALKNLGSVTHDDIKRMMAEIDTDGDGYI
SYQEFSDFASANRGLMKDVAKIF

>accession|AAX11194.1|Putative 60S acidic ribosomal P1 phosphoprotein Pen
b 26 [Penicillium brevicompactum]
MSTAELAVSYAALILADDGIEVSADKIQTILGAAKVQEVEPIWATIFAKALEGKDIKEIL
TNVGSAGPATAGAPAAAGAAAPAEKKEEKEEKEEESDEDMGFGLFD

>accession|AAX11261.1|Putative pectin methylesterase allergenic protein
[Salsola kali]
QPIPPNPAELESWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSQKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIEGLHPYITLYGIDPKNRPTITFAGTAAEFQTVDSA
TLIVESDYFVGANLIVSNSAPRPAGKRKGAQASALRISGDRAAFYNCKFTGFQDQTVCDK
GNHLFKDCYIEGTVDLIFGEARSLYLNTELHVVPDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEEARVVFSYCNLSDAVKPEGWSDNNKPAAQKTIFFGYKNTGPG
AAADKRVPTYTKQLTEADAKTFTSLEYIEAAKWLPPPPKV

>accession|AAX11262.1|Putative pectin methylesterase allergenic protein
[Salsola kali]
QPIPPNPAELESWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSQKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIERLHPYITLYGIDPKNRPTITFAGTAAEFQTVDSA
TLIVESDYFVGANLIVSNSAPRPDGRKRGARASALRISGDRAAFYNCKFTGFQDQTVCDK
GNHLFKDCYIEGTVDLIFGEARSLYLNTELHVVPDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEEARVVFSYCNLSDAVKPEGWSDNNKPAAQKTIFFGYKNTGPG
AAADKRVPTYTKQLTEADAKTFTSLEYIEAAKWLPPPPKV

>accession|AAX14379.1|Putative vacuolar serine protease [Davidiella
tassiana]
MRGALAGLSLATLATASPVLVNSIHNDAAPIISASNAKEIADNYMIKFKDHVTQNLAAEH
HGWWQDLHEKTQVAKTELKRSQSPMVDDIFNGLKHTYNIAGGLMGYAGHFDEQVIEQIR
RHPDVELVERDQEVHVLGSESEVEKNAPWGLARISHRDSLSFGTFNKYLYTEDGGEGVDV
YVVDGTGTVNDHVFDEGRASWGKTIPQGDADGNGHGHGTHCSGTVAGKKYGVAKKAHVKA
KVLRSNGSGSMSDVVKGVEYAAESHLEQVSITKKGKRKGFKGSTANMSLGGGKSPILDKA
VNAAVDAGIHFAVAAGNDNADSCNYSPPAAENAVTVGASTLADERAYFSNYGKCNDFIFAP
GLNIQSTWIGSKYAVNTISGTSMA SPHVAGLLAYLLSLQPAKDSAFVAVADISPKKLKANL
ISIATVGALTDVPSNTANILAWNGGESNYSAIVEKGGYKATHRPTMLEEIESEAKVASK
KVYSEGDELAHKVAELTEKVEDLIAGELKDMFRELKRE

>accession|AAX19848.1|Putative thaumatin-like protein precursor [Malus x
domestica]
MMKSQVASLLGLTLAILFFSGAHAAKITFTNNCPNTVWPGLTGDQKPQLSLTGFELASK
ASQSVDA PSPWGRFWRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYDVS LVDGFNL PMSVAPQGGTGECKPSSCPANVNMCPAQLQVKAADG SVISC
KSACLAFGDSKYCCTPPNDTPETCPPTSEYSEIFEKQCPQAYSAYDDKNSTFTCSGGPDY
VITFCP

>accession|AAX19851.1|Putative thaumatin-like protein precursor [Malus x domestica]

MMKSQAASLLGLTLAILFFSGAHAAKITFTNNCPNTVWPGLTGDQKPQLSLTGFELASK
ASQSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYDVLVDGFNLPMSVAPQGGTGECKPSSCPANVNMCPAQLQVKAADGSGVISC
KSACLAFGDSKYCCTPPNDTPETCPPTSEIFEKQCPQAYSAYDDKNSTFTCSGGPDY
VITFCP

>accession|AAX19854.1|Allergen profilin 1 [Malus x domestica]

MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQEGGAVIRGKKGSGGVTVKKTGQALVFGIYEETLTPGQCNMIVE
RLGDYLIDQGL

>accession|AAX19856.1|Allergen profilin 1 [Malus x domestica]

MSWQAYVDDHLMCDIDGHHLTAAAILGHDGSVWAQSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQEGGAVIRGKKGSGGVTVKKTGQDLVFGIYEEPLTPGQCNMIVE
RLGDYLIDQGL

>accession|AAX19858.1|Allergen profilin 2 [Malus x domestica]

MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGSTKYMVIQEGPGVVIRGKKGPGGVTVKKTSTMALLIGIYDEPMTGQCNMVVE
RLGDYLIEQGL

>accession|AAX19860.1|Allergen profilin 2 [Malus x domestica]

MSWQAYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGVMNDFNEPGSL
APTGLYLGSTKYMVIQEGPGVVIRGKKGPGGVTVKKTSTMALLIGIYDEPMTGQCNMVVE
RLGDYLIEQGL

>accession|AAX19889.1|Putative pathogenesis-related protein 10 [Vigna radiata]

MAVFTFDQATSPVAPATLYNALAKDADNIIPKAVGSFQSVIVEGNGGPGTIKKISFVE
DGETKFLVHKIESVDEANLGYSYSIVGGVALPDTAEKITIDTKISDGADGGSLLIKLTISY
HGKGDAPPNEDELKAGKAKSDALFKAVEAYLLANP

>accession|AAX33727.1|Putative Per a 2 allergen [Periplaneta americana]

MTFLIQSAFVALAAISAVLCDPVVVPLQKRAPVEEYINTQYVGPVQLGNQYFLCVFDTSS
YTTVIPSASCVSGGCNCANVHKYYSNKPVSNNVASVPILGSGYANGSEAHDYIAVSTLNA
TNQGFLADDISNDICSLGADCVIGLGRPKSGRAAFNLPTVMENFVNQDNIANFSFHHG
RYPDQHRGVLVGGPIPAYYRGDFTYVPLVDQDTWNFKVDSISVGNEVIATDQLAFVDS
SKYVITGPAEEIKKINDRLGCTNKVIGSRTL CVFDCDKLDNVPSVTFTIGGVAFNISSTY
QIQNGDLCSYSGFQYSAGKCFHFHGFDFMDNYYGEFQGNKRMGFAKSVEEL

>accession|AAX33728.1|Putative Per a 4 allergen [Periplaneta americana]

MLSILVVCLLAGFQLAAGDDSCQIGTSFTGLDMTKYVGTWYELFRTPNSDEEDFTNCEYD
KYTLDENGVIQVTSVAYTNSTRGFITSTGTVPSTWTFDIAYGNETWSSTYFMIGTDY
QYTSIVAGCLDNDYSRHLWIASHGTSFDDATKAKVNEVLAPYNLSLDDMEPVDQSYCVQ
YKS

>accession|AAX33729.1|Allergen Per a 5 allergen [Periplaneta americana]

MTIDFYLLPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMNPHQHTIPTLNDK
GFCLWESRAILSYLADQYKDDSLYRRDAKKRALVDQRLYFDIGTLYHRFGEYYPYIFA
KQAADPEKMKKLEAEFELNKFLESQEFVAGNKLTIADLAIVSSVSTADIMGFDVSKYSN
VAKWFEKCKKIVPGYEELNHSGLKFKEMCDNLAKK

>accession|AAX33730.1|Putative Per a 6 allergen [*Periplaneta americana*]
MDELPDEQIQLLKKAFFDAFDREKNGFISTDMVGTILEMLGHPLEDDMLLEEIIAEVDADGS
GELEFQEFVTLAARFLVEEDAEMQQELKEAFRLYDKEGNGYITTTVLREILKELDDKLT
NEDLDAMIEEIDSDGSGTVDFDEFMEVMTGE

>accession|AAX33734.1|Allergen MPA3 allergen [*Periplaneta americana*]
MLRYLVLASLIACSLSAVPAKAKRPRLDGRIVGGRPADYQYQLSFEYYGSHMCGASII
SPNVVVTAAHCVDGVSASSATFRAGGSIRESGSVHQATQLIANPNYDYTTIDFDVAVAR
VSPAFSYGTGVQPIPLASSEPSAGQIATVSGWGTTEGGSTLPSQLQVVSVPVIVSRSECN
QAYSIDYGGITDDMICAAEQQGGKDACQGDSSGGLVNVNQLAGIVSWGVCAGQGYPGVYS
NVASLKGFFITEQTVN

>accession|AAX34047.1|Allergen Blo t 5.02 allergen [*Blomia tropicalis*]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLHITHEVDDLEKT
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>accession|AAX35807.1|Putative lipid transfer protein 2 precursor [*Lens
culinaris*]
MARGMKLACVVLVICMVVIAPMAEGAISCGAVTSDLSPLTYLTGGPGPSPQCCGGVKKL
LAAANTTPDRQAACNCLKSAAGSITKLNNTNNAALPGKCGVNIPIYKISTTTNCNTVKF

>accession|AAX37288.1|Putative tropomyosin [*Penaeus monodon*]
MDAIIKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSLSDERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>accession|AAX37321.1|Putative glutathione transferase mu class Yv5004H11
[*Sarcoptes scabiei* type hominis]
MSSKPTLGYWNIRGLAQPIRMMLSYAGVDFVDKRYNYGPAPDFDRSEWLNEKFNGLDFP
NLPYYIDGDVKTQSLAILRYLARKHKLDGHNEQEWLRIALCEQQIVDLYMAMGRISYDP
NFEKLPDYLEKLPDNLKLFSEFLGDHPFVAGTNLSYVDFVVEYLIRLKAAMPVEVFAKF
QNLGNVYVNRFESEMPKISAYLKQQQPQFFNGLMAKWNMKY

>accession|AAX37326.1|Putative glutathione transferase mu class Dp7019C10
[*Dermatophagoides pteronyssinus*]
MSQPILGYWDIRGYAQPIRLLLTYSVDFVDKRYQIGPAPDFDRSQWLNEKFNGLDFPN
LPYYIDGDMKMTQTFAILRYLGRKYKLNDSNDHEEIRISMAEQQTKDMAAMIRVCYDAN
CDKLPDYLLKSLPDLKLMKSFVGEHPFVAGANISYVDFYLYEYLRCRVKVMVPEVFGQFE
NLKRYVERMESLPRVSDYIKKQPKTFNAPTSKWNASYA

>accession|AAX40948.1|Allergen allergen Ziz m 1 [*Ziziphus mauritiana*]
MVPQAKLVVASLILTSALIQTSEAVGGIATYWGYTETEEGSLAEACASNLYSYINIAYL
NIFGEGRYLSLNLISGHCSDCFTLGEIEIKACQSQGVKIFLSLGGPYGDYHLTTDGDADRA
EQLWSSFLGGSKSTGVYQPLLGDVELDGDIDLDIQIGPPEEYDVLARNLKDLDLTKDRTRPFY
LSAAPKCSAYNDSAYLWTAVETGLFDFVWVKFYNDTSCQYNNDTAAGLDAFYRSWYDWT
VSLAEGNKLLIGIPASNETDNSPLGGYIPSDVLNDQIVSVIMTSSKFGGVNVWNRYYDLK
TNYSSSIILEYVNSGTKYLPRLRTRKFMYQNA

>accession|AAX47076.1|Allergen Der p 1 allergen [*Dermatophagoides
pteronyssinus*]

NEIAXAKIDLRQMRTVTPIXMQGGCGSCWALSGVAATESAYLAYGNXSLDLAEQELVDCA
SQHGCHGDTIPRGIEYIQHNGVVQESYYRYVAREQSCRPNNAQRFGISNYCQIYPPNVNK
IREALAQTHSAIAVIGIKDLDAFRHYDGRTEIQRDNGYQPNYHAVNIVGYNSAQGVVYD
IVRNSWDTNWDNGYGYFAANIDLMMIEEYPYVVIL

>accession|AAX57578.1|Putative BW 16kDa allergen [Fagopyrum esculentum]
RDEGFDLGETQMSSKCMRQVKMNEPHLKKCNRYIAMDILDDKYAEALSRVEGEGCKSEES
CMRGCCVAMKEMDDECVCCEWMKMMVENQKGRIGERLIKEGVRDLKELPSKCGLSEMECGS
RGNRYFV

>accession|CAI77218.1|Allergen hyaluronidase b [Vespula vulgaris]
DRTIWPKKGFSIYWNIPTHFCHNFGVYFKELKQFNIKYNSMNNFRGETISLFYDPGNFNS
MVLKNGTYEIRNEGVPQKGNLTIHLEQFTKELDEIYPKKIAGGIGVIHFHNWRPIFRRN
VDNLKINKDISIDLVRKEHPKWDKSMIEKEASNRFETSAKIFMEKTLKLAKEIRKKT EWG
YHGYPHCLSGSTDKPSFDCDALSMSSENDKMSWLFNQNVLPSIYLNVLKLPDEKIHVLQ
ERLKEAIRISKNFKHLPKVLPYWWYTYQDKESIFLTEADVKNTFKEILTNGADGIIWGV
SYELTDRKRCEKLEKYLMLKILGPIAFKVTKAVKENTPLNF

>accession|AAX77383.1|Allergen 11S globulin precursor [Sinapis alba]
MVKLAHLLVATVGVLVLNGCLARQSLGVPVQVKDACNLNDVLDVLPTEVIKSEAGQVEY
WDHNHPQIRCAGVSIARLVIQKGGYLYLPTFFSSPFI SYVQGMGISGRVIPGCAETFMD
QPMQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGG
VEHVRHGDAIAMTPGSAQWIYNTGDQPLIIVSLIDIANYQNQLDRNPRTFRLAGNNQQGS
SQQQQQQQQNILSGFDPOVLAQALKIDVRLAQELQNKQDKRGNIVRVKGPQVVRPPLRQ
AYESEQWRHPRGPPQSPQDNGLEETICSMRTHENIDDPARADIYKPNLGRVTSVNSYTL
ILQYIRLSATRIGILQGSAMVLPKYNMNAEILYCTQGGQARIQVVDNDNGQNVLDQVQKGG
LVVIPQGFAYVVSQNNFEWISFKTNANAMISTLAGRTSALRALPLEVITNAYQISLEE
RKIKFNTLETTLTRARGGQQPQLIEEIVEV

>accession|AAX77384.1|Allergen 11S globulin precursor [Sinapis alba]
MVKLAHLLVATVGVLVLNGCLARQSLGVPVQVKDACNLNDVLDVLPTEVIKSEAGRLEY
WDHNNPQIRCAGVSIARLVIQGGFYLYLPTFFSSPKISYVQGMGISGRVIPGCAETFMD
QPMQGGQQGHGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGGQQGG
GQQGFRDMYQKVEHVRHGDVIANTPGSAHWIYNTGDKPLVIIISLLDIANYQNQLDRNPRV
FRLAGNNPQGGFGPPQQQQPQONILNGFDPQVIAQALKIDVRLAQELQNKQDSRGNIVRV
KGPQVVRPPLRQAYESEQWRHPRGPPQSPQDNGLEETICSMRTHENIDDPARADIYKPN
LGRVTSVNSYTIPIQLQYIRLSATRIGILQGSAMVLPKYNMNAEILYCTQGGQARIQVVDN
GQNVLDQVQKGLVVIPQGFAYVVSQNNFEWISFKTNANAMISTLAGRTSALRALPLE
VITNAFQISLEEARKIKFNTLETTLTRARGGQQPQLIEEIVEV

>accession|AAX77684.1|Allergen calcium-binding protein isoallergen 1
[Ambrosia artemisiifolia]
MAEEDKAERDRIFGAFDANKDGKISSTELGESLKNLGSVSPEEVQTMMEELDTDGDGFI
SYEFTDFYNANRGLMKDVGKIF

>accession|AAX77685.1|Allergen calcium-binding protein isoallergen 2
[Ambrosia artemisiifolia]
MAEDEDKAERDRIFGAFDANKDGKISSNELGEALKNLGSVSPEEVQTMMEELDTDGDGFI
SYEFTDFYNANRGLMKDVGKIF

>accession|AAX77686.1|Putative calcium-binding protein [Ambrosia
artemisiifolia]
MAPENNKHSIFPTDKEEVTKIFNRFDINGDQISEDELFAILKSLGSDTSPDEVKRVMAE
IDADGDGFISLDEFILFCKGIESEGDEINDLKEAFKFDQNNNGVISANELHQILGRLGE

NYSVESCADMIKSVSDSDGDGFVDFEFRKMMSRKGGDGAM

>accession|AAX77687.1|Allergen profilin isoallergen 1 [Ambrosia artemisiifolia]
MSWQTYVDEHLMCDIEGTGQHLASAAIFGTDGNVWAKSSSFPEFKPDEINAIIKEFSEPG
ALAPTGLFLAGAKYMVIQGEPGA VIRGKKGAGGICIKKTGQAMVFGIYEEPVNPGQCNMV
VERLGDYLVLDQGM

>accession|AAX77688.1|Allergen profilin isoallergen 2 [Ambrosia artemisiifolia]
MSWQTYVDEHLMCDIDGSGHHLSSAAIFGTDGAVWAKSGSFPEFKPDEINAIIKEFDAAG
TLAPTGLFLAGAKYMVIQGEPGA VIRGKKGAGGICIKKTGQAMVFGIYEEPVPAPGQCNMV
VERLGDYLVLDQGM

>accession|CAI78902.1|Allergen putative gamma-gliadin [Triticum aestivum]
MQVNPSVQVQPTQQQPYPESQQPFISQSQQQFPQPQQPFPQQPQQPFPQSQQQCLQQPQH
QFPQPTQQFPQRPLLPFTHPFLTFPDQLLPQPPHQSFPPQPPQSYQPPLQFPFPQQKY
PEQPQQPFPWQQPTIQLYLQQQLNPKCEFLQCRPVSLLSYLWSKIVQQSSCRVMQQQC
CLQLAQIPEQYKCTAIDSIVHAI FMQQGQRQGVQIVQQQPQPQQVQGCVLVQGGVVQPQ
QLAQMEAIRTLVLQSVPSMCFNVPNCSTIKAPFVGVVTGVGGQ

>accession|AAX85388.1|Putative Amb a 1-like protein [Artemisia vulgaris]
MEKHVFVILFTA AFVFGAAAARADIGDELEAAQFNSTRRLHECAAHNIIDKCWRCKADW
EKNRQALAKCAQGFAGKTTGGLGGEIYVVTDCSDDNAANPKPGLRCGVTQDKPLWIIFK
KDMVIKHELKHELVINKDKTIDGRGANVEITCGGLTIHNCNVI IHNIHIHDIKVTEGGI IK
ATDAKPGHRHKS DGDGICVAGSSKIWIDHCTLSHGPDGLIDVTLGSTAVTISNCKFSSHQ
KILLGADNSHVDDKMMHVTVAFNRFAEACDQRMPCRFRGFFQVVNNDYTSWGTYAIGGS
ANPTILSQGNRFHAPNDPMKKNVLRADAPHTESMKWNWRSEKDLENGAIFVASGCDPH
LTPEQKSHLIPAEPGSAVLQLTSCAGTLKCVPGKPC

>accession|AAX85389.1|Allergen polcalcin [Artemisia vulgaris]
MADEKAECDRIFGAFDKNGDGKISAAELGESLTKLGSVSPEEVQTMDELDTDGDGYIS
YDEFAEFFNANRGLMKDVGKIF

>accession|CAI79052.1|Putative putative LMW-glutenin subunit [Triticum aestivum]
MSHIPGLERPSQQQPLRPQQTLSHHHHQQPIQQQPQQFPQQQPCSQQQQQPPLSQQQQPP
FSQQQQPPFSQQQQPVLPQQPSFSQQQLPFPFSQQQQPPFSQQQQPVLPQQPSFSQQQLPP
FSQQLPFPFSQQQQPVLLQQQIPFVHPSILQQLNPKVFLQQQCSPVAMPQSLARSQMLQQ
SSCHVMQQQCCQQLPQIPQQSRYEAIRAIVYSIILQEQQQVQGSIQTTQQQPQQLGQCVS
QPQQQSQQQLGQCSFQQPQQQLQQLGQQPQQQQIPQGIQFLQPHQISQLEVMTSIALRTLPT
MCGVNVPLYSSTTIMPF SIGTVGGY

>accession|1YG9_A|Allergen Chain A, The Structure Of Mutant (N93q) Of Bla G 2 [Blattella germanica]
GASIVPLYKLVHVFINTQYAGITKIGNQNFLT VFDSTSCNVVVASQECVGGACVCPNLQK
YEKLPKYISDGNVQVKFFDTGSAVGRGIEDSLTISQLTTSQQDIVLADELQSQVCILSA
DVVVGIAAPGCPNALKGKT VLENFVEENLIAPVFSIHHARFQDGEHFGEIIFGGSDWKYV
DGEFTYVPLVGDSDWKFRLDGKIGDTTVAPAGTQAI IDTSKAIIVGPKAYVNPINEAIG
CVVEKTTTRRICKLDCSKIPSLPDVTFVINGRNFNISSQYYIQQNGNLCYSGFQXPXGHS
HFFIGDFFVDHYYSEFNWENKTMGFRSVE

>accession|AAY21180.1|Putative major royal jelly protein 9 [Apis mellifera]

MSFNIWWLILYFSIVCQAKAHYSLRDFKANIFQVKYQWKYFDYNFGSDEKRQAAIQSGEY
NYKNNVPIDVDRWNGKTFVTILRNDGVPSSLNVISNKIGNGGPLLEPYPNWSWAKNQNC
GITSVYRIAIDEWDRWLWLDNGISGETSVCSQIVVFDLKNKLLKQVKIPHDIAINST
GKRNVVTPIVQSFYDNNWVYIADVEGYALIIYNNADDSFQRLTSSTFVYDPRYTKYTIN
DESFLQDGLGMALSHKTQONLYYSAMSSHNLNYVNTKQFTQGFQANDIQYQASDILW
TQASAKAISETGALFFGLVSDTALGCWENRPLKRRNIEIVAKNNDTLQFISGIKIKQI
SSNIYERQNNIYIWIIVSNKYQKIANGDLNFNEVNFRIILNAPVNLIRYTRCENPKTNFFS
IFL

>accession|CAI64396.1|Putative serine carboxypeptidase II [Triticum aestivum]

GNGLIDDYHDYVGTFFFWNHGLVSDDTYQRLREACLHDSFIHPSPACDAATDVATAEQG
NIDMYSLYTPVCNITSSSSSSSSSSLSQRRSRGRYPWLTGSYDPCTERYSTAYNRRDVQ
TALHANVTGAMNYTWSTCSDTINTHWHDA PRSMLPIYRELIAAGLR IWVFSGDTDAVVPL
TATRYSIGALGLPTTTSWYPWYDDQEVGGWSQVYKGLTLVSVRGAGHEVPLHRPRQALVL
FQYFLQGKPMPGQATNATVA

>accession|CAI64397.1|Putative putative leucine-rich repeat protein [Triticum aestivum]

KPVAANQDVALSALRRGLQDPNGELKNWDANLVDACTWSHITCDRDNNRVTRIDLNKMN
LSGPLAPELGKLDRLQYLEIDHNRLTGPIPRELAGLSNLKHADFSNNNLGPIPTTGAFQ
RIPRSSFANNPRLGRKC

>accession|CAI64398.1|Putative 5a2 protein [Triticum aestivum]

IAVAVSADECEGDRRAMIKECAKYQWPANPKLDPSDACCVAWQKANIPCLCAGVTKEKE
KIYCMKVAYVANFCKKPFPHGYKCGSYTFPPLA

>accession|CAI64400.1|Putative thioredoxin h1 protein [Zea mays]

MAASEAAAAATPVAPTEGTVIAIHSLEEWISIQIEEANS AKKLVIDFTATWCPPCRAMA
PIFADMAKSPNVVFLKVDVDEMKTIAEQFSVEAMPTFLFMREGDVKDRVVGAAKEELAR
KLELHMAS

>accession|CAI84642.1|Putative alpha-amylase inhibitor 0.19 [Triticum aestivum]

CYPGQAFQVPALPACRPLLRLQCNGSQVPEAVLRDCCQQLAHISEWCRCGALYSMLDSMY
KEHGAQEQAGTGAFPRCRREVVKLTAASITAVCRLPIVVDASGDGAYVCKDVAAYPDA

>accession|EAL89830.1|Putative major allergen Asp F2 [Aspergillus fumigatus Af293]

MAALLRLAVLLPLAAPLVATLPTSPVPIAARATPHEPVFFSWDAGAVTSFPIHSSCNATQ
RRQIEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRP TMEAVGAYDVIVNGDKANVL
FRCDNPDGNCALLEGWGGHWRGANATSETVICDRSYTTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPVAVGQGWVDHFADGYDEVIALAKSNGTESTHDSEALQYFALEAYAFDIA
APGVGCAGESHGPDQGHDTGSASAPASTSTSSSSSGSGSGATTTPTDPSATIDVPPVRT
VRIS

>accession|AAY83341.1|Allergen non-specific lipid transfer protein precursor [Fragaria x ananassa]

MASSTAMKLSLVALLCIVVALPIAQAITCGQVASSISPCVNYVKS GGAVPAACCNGIRSL
NSAAKTTADRQATCNCLKQASGAIKGLNPSLAAGLPGKCGVSVPYKISTSTNCAAVK

>accession|AA83342.1|Allergen non-specific lipid transfer protein precursor [Fragaria x ananassa]
MASSTAMKLSLVALLCIVVALPIAQAITCGQVASNISPCVTVYKSGGAVPAPCCSGIRNL
NGMAKTTADRQATCNCLKQAAGGIKGLNPNLAAGLPGKCGVSVPYKISTTTNCAAVK

>accession|AA83345.1|Allergen non-specific lipid transfer protein precursor [Fragaria x ananassa]
MAISTAMKLSLVALLCIVVALPIAQAITCGQVASSISPCVNYVYKSGGAVPAACNGIRSL
NSAAKTTADRQATCNCLKQASGAIKGLNPNLAAGLPGKCGVNVPYKISTSTNCAAVK

>accession|AA84563.1|Putative group 18 allergen protein [Dermatophagoides pteronyssinus]
MTRLSFTVLIFLAAYFGSNIRPNVATLDPKTVCYYESWVHWRQGDGKMDPEDIDTSLCSH
IVYSYFGIDASSHEIKLLDQYLMITLHDMEHFTHKHGNAKAMIAVGGASMSDQFSKTA
AV EHYRETFFVSTIDLMTKYGFDFGVMIDWSGMQAKDSDNFVKLLDKFDEKFAQTSFV
MVGVTLPATIASYDNYNIPASISNYVD FMNVLTLDYDGPWAYTVGHASALPEQLKT
LEAYNKRGAPRHKMVMAVPPFFARTWILEKMDKQDVGDKASGPGPKQFOTQTPGF
LSYNELCVQIQAE TNAF SITRDHDNTAIYAVYVHDNHAEWISFEDRHTLGDKARNI
TEQGYGGMSVYTL SNEDVHGV CGDKNPLLHAINSNYFRGIVTEPTVVTPTVTH
TTEHVTDIPGVFHCHQEGFFRDKYCA KYECKKGDVFGLEQTVHHCPNHSQAFDE
VSRTCVDHAKIPGC

>accession|AA84565.1|Putative group 15 allergen protein short isoform [Dermatophagoides pteronyssinus]
MKTSCAILILMACFGLMNAAVKRDNHNNYSKNPMRIVCYVGTWSVYHKVDPYTI
EDIDPFKCTHLMYGF AKIDEYKYTIQVDFPYQDDNHNTWEKHGYERFNLR
LKNPELTTMISLGWYEGSEKYS DMVANPTYRKQFVQSVDLFLQEQYKFDGLD
LDWEYPGSRLGNPKIDKQNYLTLVRELKEAFEPFGYLLTAAVSPGKD
KIDVAYELKELNQLFDWMNVMTYDYHGGWENVF GHNA PLYKRPDETDELHTY
FNVNYTMHYLLNNGATRDKLVMGVPFYGRAWSIEDRSKVKLGDPA KMSPPG
FITGEEGVLSYIELCQLFQKEEWHIQYDEYYNAPYGYNDKIWVG YDDLASIS
CKLAFLEKELGVS GVMISLENDDFKGHC GPKYPLLNVHNMINGDEKNSYE
CLLGPSTTTP TPTTPSTPSTTTPPTTPSTPSTTTPPTTPSTTPTTDST
SETPKYTTTYVDGH LIKCYKEGDLPHTNIHKYL VCEYVNGGWVHIMPCPPG
TIWCQEKLTCITE

>accession|P83958.1|Allergen Thaumatin-like protein (Allergen Act c 2) [Actinidia chinensis]
ATFNFINNCPFTVWAAA VPG

>accession|AA88919.1|Putative Ole e 11.01 allergen precursor [Olea europaea]
MSCIAVEAVLLGILLYIPIVLSDDRAPIPANSAQLNSWFDGIIQPVAVRKATMDP
ALVTA EGQAKVIKLSKSDGSGDFKSINEAIKSI PDDNTKRVILS FSPGNYSEK
VKIGMYKH YITFY GEDPNM P ILVFGGTAAEYGTVD SATLIVESNYFSAVN
LKI VNSAPRPDGKRVGAQAAAAL R ISGDKASFY NVKIYGFQD T LCDDK
GHFYKDCYIEGTVDFIFGSGKSIFLNTELH AVPG DQP AIIITAQARKTE
SEDTGYFYFNCRVTGGGAF LGRSWMPAAKVVFAYTEMGDAIHP EGW I
LVKPEHESTVRFP EYNKGPGANMEKRAKRVKRLSDAEAKQ S ISLGSIE
ASKWLLPPRV VGLP

>accession|AAZ20276.1|Putative oleosin 1 [Arachis hypogaea]
MAEALYYGGRQRQEQPRSTQLVKATTAVVAGSLLILAGLVLAGTVIGLTTITPL
FVIFS PVLVPAVITVALLGLGFLASGGFGVAAITVLTWIIYRYVTGKHPPG
ANQLD TARHKL MGKA REIKDFGQQQTSGAQAS

>accession|CAI38795.2|Allergen thaumatin-like protein [Actinidia deliciosa]

MSTFKSLSLSALLFIAFLFTCARGATFNIINNCPTVWAAAVPGGGKRLDRGQNWIIINPG
AGTKGARVWPRTGCNFDGAGRKGCQTGDCNGLLQCQAFGQPPNTLAEYALNQFNNDLDFD
ISLVDGFNVAMEFSPTS GSGCTRGIKCTADINGQCPNELRAPGGCNPCTVFKTDQYCCNS
GNCGLTNFSKFFKDRCPDAYSYPKDDQTSTFTCPAGTNYKVVFPC

>accession|AAZ23584.1|Allergen HMW glutenin x-type subunit Bx7 precursor
[Triticum aestivum]

MAKRLVLF AAVVVALVALTAAEGEASGQLQCEHELEACQQVVDQQLRDVSPGCRPITVSP
GTRQYEQPVVPSKAGSFYFSETTPSQQLQOMIFWGIPALLRRYPSVTSSQQGSYYPGQ
ASPQQSGGQQPGQEQPGQGGQDQPGQRQQGYPTSPQQPGQGGQLGQGPYPTSPQ
QPGQKQAGQGGQSGGQQGYPTSPQQSGGQQPGQGPYPTSPQQSGQWQQPGQGGQ
QPGQGGQSGGQQGGQPGQGRPGQGGQGYPI SPQQPGQGGQSGGQGPYPTSLRQPG
QWQQPGGQQPGQGGQGGQPGQGGQSGGQQGYPTSLQQPGQGGQLGQGPYPTSPQ
SEQGQQPGQGGKQPGQGGQGYPTSPQQSGGQQGLGQGPYPTSPQQSGGQQSGGQQ
GYPTSPQQSGGQQPGQGGQSYFPTSRQQSGGQQPGQGGQSGGQQGGQPGQGGQAYY
PTSSQQSRQRQQAGQWRPGQGPYPTSPQQPGQEQSGQAQQSGQWQLVYYPTSPQQ
PGQLQQAQGGQQAQGGQSAQEQPGQAQQSGQWQLVYYPTSPQQPGQLQQAQGGQGY
PTSPQQSGGQQGYPTSPQQSGGQQGYPTSPQQSGGQQPGQGGQPRQGGQGYPI S
PQQSGGQQPGQGGQGYPTSPQQSGGQQPGHEQQPGWLQPGQGGQGYPTSSQQSGQ
GHQSGGQQGYPTSLWQPGQGGQPGQGGQGYASPHYVSAEYQAARLKVAKAQQLAQLP
AMCRLEGS DALSTRQ

>accession|CAJ19705.1|Allergen non-specific lipid transfer protein
[Solanum lycopersicum (Lycopersicon esculentum)]

MEMVNKIACFVLLCMVVVAPHAEALTCGQVTSTLAPCLPYLMNRGPLRNCCDGVKGLLGQ
AKTTVDRQA ACTCLKSAASSFTGLNLGKAAALPNTCSVNIPIYKISPSTDCSKVQ

>accession|AAZ76743.1|Allergen Pen a 1 allergen [Farfantepenaeus
aztecus]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>accession|1WKX_A|Allergen Chain A, Crystal Structure Of A Hev B 6.02
Isoallergen [Hevea brasiliensis]

EQCGRQAGGKLC PDNLCCSQWGWCGSTDEYCS PDHNCQSNCKD

>accession|P0C088.1|Allergen Nonspecific lipid-transfer protein (LTP)
(Pollen allergen Art v 3) [Artemisia vulgaris]

ALTCSDVSNKISPCLSYLKQGGV PADCCAGVKGLND

>accession|BAE20328.1|Allergen omega-5 gliadin [Triticum aestivum]

MKTFIIFVLLAMAMNIASASRLSPRGKELHTPQEQFPQQQFPQPQQFPQQQIPQQHQI
PQQPQQFPQQQFLQQQIPQQQIPQQHQIPQQPQQFPQQQFPQQHQSPQQQFPQQQFP
QQKLPQQEFPQQQISQQPQQLPQQQIPQQPQQFLQQQFPQQQPPQQHQFPQQQLPQQQ
QIPQQQIPQQPQQIPQQQIPQQPQQFPQQQFPQQQFPQQQFPQQEFPQQQFPQQQIA
RQPQQLPQQQIPQQPQQFPQQQFPQQQSPQQQFPQQQFPQQQLPQKQFPQPQQIPQ
QQQIPQQPQQFPQQQFPQQQFPQQEFPQQQFPQQFHQQQLPQQQFPQQQFPQQQFPQ
QQQFPQQQLTQQQFPRPQQSPEQQQFPQQQFPQQPQQFPQQQFPPIPYPPQQSEEPSY
QQYPQQQPSGSDVISISGL

>accession|AAZ91659.1|Putative polygalacturonase [Lilium longiflorum]

MASISSARLLLLSSVLLIVKLTAGLVPETKVNKVSFGAVGDGKTDSTQAILRAWDQACNG
FGKQRVIVPEGVYLTGPMARFRGPCNGFISMQVRGELRAYGDVGKYPNAKWVSYEDLNGLL
VTGGGRFNAQGSQAWTQNDSTKKNCALLTTSVKFDHCTNATIRRINSIDSKFFHIAIDQ
CTDITVHHINITAPGTSPTNDGIHIGRSTNVNISNAIIGTGDDCISLPGSSHITISKVQ
CGPGHGISVGLGRYMNEENVWDVKVKNCTLTGTTNGVRIKTKWGSPPSEASQFIFQDIE
MREVQNPIIIDQEYCSYDYCANNPPAPSKVKLSDIQFMNIKGTSTSKVAINLICSSAVPC
EGIQLSDISLKYIRAGKPTMANCSHVS GTTSSGLVSPPSICKGADVSLFTTQML

>accession|CAJ28930.1|Allergen Ves g 5 allergen precursor [Vespa
germanica]

NNYCKIKCLKGGVHTACKYESLKPNCANKKVAYGLTKQEKQDILKEHNDFRQKIARGL
TRGNPQPQPAKNMKNLVWVNDDELAYIAQVWANQCQYGHDTCDVAKYVPGQVNAVLTGSTA
AKYDNPVKLVKMWEDVKDYNPKKKFSENNFLKIGHYTMVWANTKEVGCSSIKYIQDKW
HKHYLVLCNYGPSGNFGNEELYQTK

>accession|CAJ28931.1|Allergen Ves g 1 allergen precursor [Vespa
germanica]

GPKCFNTDTVSMIETRENRRDLYTLQTLQNHPEFKKTTITRPVVFITHGFTSSASET
NFINLSKALVDKDNMVISIDWQTAACNEAAGLKYLYPTAASNTRLVGQYIATITQKL
VKQYKISMANIRLIGHSLGAHVSGFAGKKVQELKLGKYEIIGLDPAGPSFSSNKCSDRL
CETDAEYVQILHTSNHLGTERILGTVDFYMNNGKNQPCGRFFTEVCSHSRAVIYMAECI
KHECCLIGIPKSSSQPISSCTKQECVCGVGLNAKKYPSRGSFYVPVESTAPFCNNKGKII

>accession|Q6R4B4.1|Allergen RecName: Full=Glutathione-S-transferase;
AltName: Allergen=Alt a 13 [Alternaria alternata]

MSDKPSELAVQKLVLFVAVKGTATSTHNTVRPLILLDELGVPHEIYVVDVRSAPWFTEINP
HRMVPVILEKSPDGRDTRLRAWESTSTLMYIADAYDKDGTFFGGRNVQESSDINNWLTLHTA
ALGPTAKYWLYFYKLHPKLPKTIEKLSNITVQYDILERRLNEPGQYLAWLNEKFKRS
SYNRRHCYASLCYEKYRRVVRAGVKVAQTARVVCYPYGGDTRRGVWPARKST

>accession|Q875I9.1|Putative RecName: Full=Endo-chitosanase; Flags:
Precursor [Aspergillus fumigatus]

MRLSEILTVALVTGATAYNLPNLQIYDKHKGKCSKVLAKGFTNGDASQGKSFSYCGDI
PGAIFISSKGYTNMIDCDGANNSAGKCANDPSGQGETAFKSDVKKFGISDLDANIHPY
VVFQVEDHSPKFKPQSHGMQPLSVMVAVVCNQLHYGIWGDITNGGVSTGEASISLADLCFP
NEHLGDNHGHDPNDVLFIFGFTSKDAVPGATAKWKAKNAKEFEDSIKSIGDKLVAGLKA

>accession|Q8J077.1|Allergen RecName: Full=Subtilisin-like protease 6;
AltName: Allergen=Tri m 2; Flags: Precursor [Trichophyton schoenleinii]

FITKAIPIVLAALSAVNGAKILEAGPHAETIPNKYIVVMKKDVSDEAFSTHTTWSLQNLN
RRLMRRSGSSKAMAGMNKYSLGGIFRAYSGEFDDAMIKDISNHDDVDYIEPDFVVRTST
NGTNLTRQENVPSWGLARVGSQAGGTTYDYDSSAGKGVTAVIDTGIDIEHEDFGGRAK
WGKNFVDQRDEDCNGHGTHVAGTVGGTKYGLAKSVSLVAVKVLDCDGSNSGVSIRGMEW
AMREASGGNGTAKAAGKSVMNMSLGGPRSQASNDAAARISEAGIFMAVAAGNENMDAQH
SSPASEPSVCTVAASTEDDGKAEFSNYGAVVDVYAPGKDITSLKPGGSTDTLSGTSMASP
HVCGLGAYLIIGLQGGPGLCDTIKQMANEAIQRPGEETTGLIY

>accession|Q9UVU3|Putative Allergen Asp fl 1 [Aspergillus flavus]

MQSIKRTLLLLGAILPAVLAGVQETRRAAEKLPKGYIVTFKPGIDEAKIQEHTTWTATNI
HQPSLERRGATGGDLPVGIERNYKINKFAAYAGSFFDATIEEIRKNEDVAYVEEDQIYYL
DGLTTQKSAPWGLGISHSKQQSTDYIYDTSAGEGTYAYVVDSGVNVDDHEEFEGRASKAY
NAAGGQHVDSIGHGTHVSGTIAGKTYGIKASILSVKVFQGESSTSVILDGFNWAAND
IVSKKRTSKAAINMSLGGGYSKAFNDAVENAFEQVLSVVAAGNENS DAGQTSPASAPDA
ITVAAIQKSNNRASFNFVKVVDVVFAPGQDILSAWIGSSSATNTISGTSMATPHIVGLSL

YLAALENLDGPAAVTKRIEELATKDVVKDVKGSPNLLAYNGNA

>accession|Q4WB37.1|Putative RecName: Full=Endo-chitosanase; Flags:
Precursor [Aspergillus fumigatus Af293]
MHFLATAAVLAGVGLASAYTVPANLQQIYNKHKTGTCQNKLDGFSGSDGISGSRSFAYCGD
IEGAIFLHSSANGGQYVNMIDICDGANNSSAGDCANDPSGQSMTAFMDTVKQYGISDLNAN
IHPYVVFNGSSSPTFDPPQQYGMPELSVMAVVCNNQLFYGIWGDNTGGTSTGEASISLAK
LCFPNDGITGDNGHGEEVDVLYIGFMGQDAVPGASAAWTARDTKTFEESIKALGDRLVAKL
SA

>accession|Q5BLY5.1|Putative RecName: Full=Venom acid phosphatase Acph-1;
AltName: Allergen=Api m 3; Flags: Precursor [Apis mellifera]
MSVIAILAMVVGVAELKQINVI FRHGDRIPDEKNEMYPKDPYLYYDFYPLERGETNSG
KMREYQLGQFLRERYGDFLGDITYEESVSALSSFYDRTKMSLQLVLAALYPPNKLQQWNE
DLNWQPIATKYLRRYEDNIFLPEDCLLFTIELDRVLES PRGKYEF SKYDKLKKKLEEWG
KNITTPWDYIIYHTLVAEQSYGLTLPSTNNIFPRGELFDATVFTYNITNSTPLKKLY
GGPLLRIFTKHM LDVVSGTQKKRKYIYLFSGHESNIASVLHALQLYYPHVPEYSSSIIME
LHNI EGTHYVKIVVYLGIPSEARELQLPGCEVLCPLYKYLQLIENVIPSNEELICDKRFV
DESANNLSIEELDFVKNLIRIAGTENK

>accession|Q7M4I3.1|Putative RecName: Full=Venom protease; AltName:
Allergen=Bom p 4 [Bombus pennsylvanicus]
VVGKPAKLGAWPVMVALGFHNYRQPKKSPEWKCGSLRISRHVLTAAHCAIHRSLYVVR
IADLNLRDGDGAHP IQMGIKLIHPDYVYSEHHDDIAILKLEKDV SFSEYIRPICLPI
EESLRNNNFIGNP FVAGWRLRYKGPLSDALMEVQVPVVRNKVCKRAYSDVSDTVICAG
YPKGRKDCSQGDSGGPLMIPQESTYYEIGVVSYGHECALPKYPGVYTRVTSYLD SFILPA
LKK

>accession|P80208.1|Putative Napin-3 (Napin BnIII) (Napin nIII) (1.7S
seed storage protein) [Contains: Napin-3 small chain; Napin-3 large
chain] [Brassica napus]
SAGPFRIPKCRKEFQQAQHLRACQWLHKQAMQSGSGPQGPQRPPLLQCCNELHQEEP
LCVCPTLKGASRAVKQQVRQQGQQGQQLQQVISRIYQTATHLPKVCNIPQVSVCPFQKT
MPGPS

>accession|P82952.1|Putative Seed allergenic protein 2 (Conglutin gamma)
(Allergen Pru du ?) [Prunus dulcis]
TKSQTHVPIRPNKLVKQKDRATN

>accession|Q647G9.1|Allergen RecName: Full=Conglutin; AltName:
Allergen=Ara h 6; Flags: Precursor [Arachis hypogaea]
MAKSTILVALLALVLAHASAMRRERGRQGDSSSCERQVDRVNLKPCEQHIMQRIMGEQE
QYDSYDIRSTRSSDQQQRCCDELNEMENTQRCMCEALQQIMENQCDRLQDRQMVQQFKRE
LMNLPQQCNFRAPQRCDL DVSGGRC

>accession|Q7M1E8|Putative Pollen major allergen Par o I [Parietaria
officinalis]
ATGKVVQGAMPP

>accession|Q7M1L8|Allergen Pollen allergen Phl p V [Phleum pratense]
DLGYAPATPAAPGAGYTPATPAAP

>accession|Q7M1X6|Putative Group I allergen Ant o I (Form 1), pollen
[Anthoxanthum odoratum]

IAKVPPGPNITATYGDKWLDKSTWYGKPTGA

>accession|Q7M1X7|Putative Group I allergen Agr a I (Form 2), pollen
[Agrostis alba]
IAKVPPGPNITADYGDKWLDKSTWYGKPTGAGPK

>accession|Q7M1X9|Putative Group I allergen Agr a I (Form 1), pollen
[Agrostis alba]
IAKVPPGPNITATYGDKWLDKSTWYGKPTGAGPK

>accession|Q7M1Y0|Putative Group I allergen Ant o I (Form 2), pollen
[Anthoxanthum odoratum]
IAKVPPGPNITADYGDKWLDKSTWYGKPTGA

>accession|Q7M1Y1|Putative Group I allergen FeS e I, pollen [Schedonorus
arundinaceus]
IAKVPPGPNITAEYGDKWLDKSTFYGKPTGAGPK

>accession|Q7M262|Allergen 30K allergen [Holcus lanatus]
ADAGYTPAAPAATGAGGDAT

>accession|Q7M263|Putative 30K allergen [Secale cereale]
ADAGYAPAAPGTQPKA

>accession|O22108|Putative LMM glutenin 1 [Triticum aestivum]
RCIPGLERPWQQQLPFPQQPLFSQQQQQLFPQQPSFSQQQPPFWQQQPPFSQQQ
PILPQQPPFSQQQQLVLPQQSPFSQQQQLLILPPQQQQQLPQQQISIVQPSVLQQLNPKV
FLQQQCSPVAMPQRLARSQMWQQSSCHVMQQQCCQQLSQIPEQSRYDAIRAITYSIILQE
QQQGFVAQQQQPQQSGQVQSQQQSQQQLGQCSFQQPQQQLGQQPQQQQVQQGTFLQP
HQIAHLEVMTSIALRTLPMCSVNVPLYSSTTSVPPFGVGTGVGAY

>accession|O23791.1|Allergen Bromelain precursor (Allergen Ana c 2)
[Ananas comosus]
MASKVQLVFLFLFLCAMWASPSAASRDEPNDPMMKRFEWMAEYGRVYKDDDEKMRRFQI
FKNNVKHIETFNSRNENSYTLGINQFTDMTKSEFVAQYTGVSLLPLNIEREPVVSFDDVNI
SAVPQSIDWRDYGAVNEVKNQNPCGSCWSFAAIATVEGIYKIKTGYLVSLSQEVLDCAV
SYGCKGGVWVKAYDFIISNNGVTTTEENYPYLAYQGTGNANSFPNSAYITGYSYVRRNDER
SMMYAVSNQPIAALIDASENFQYYNGGVFSGPCGTSLNHAITIIGYGQDSSGTYWIVRN
SWGSSWEGGGYVRMARGVSSSSGVCGIAMAPLFPRTLQSGANAIEVIKMVSET

>accession|Q94JN2.1|Putative RecName: Full=Profilin; AltName: Full=Minor
food allergen Ana c 1; AltName: Allergen=Ana c 1 [Ananas comosus]
MSWQAYVDDHLMCEIDGQHLSSAAILGHDSTVWAQSPNFPQFKPEEISAILNDFENPGSL
APTGLYLGGTKYMIQGEQGVVIRGKKTGGITVKKTNLALIIGVYDEPMTPGQCNMVE
RLGDYLLEQGF

>accession|O22116|Putative LMM glutenin 3 [Triticum aestivum]
ASAVAQISQQQPPPPFSQQQPPFSQQQPPFSQQQSPFSQQQQPPFSQQQPPFSQQ
PLISQQQQLPFSQQQPPFSQQQPPYSQQQPPYSQQQPPFSQQQPPFSQQQPPFS
QQQQPPFTQQQPPFSQQSPISQQQQQQQQQQQQPFTQQQPPFSQQPPISQQQPPFS
QQQPPFSQQQIPVIHPSVLQQLNPCMVFLOQCIPVAMQRCLARSQMLQQSICHVMQR
QCCQQLRQIPEQSRHESIRAIYSIILQQQQQQQQQQQQQGSIIQYQQQPPQQLGQCV
SQPQQQLQQQLGQQPQQQQLAHGTFLOPHKIAQLEVMTSIALRTLPRMCSVNVPLYETTT
SVPLGVGIGVGVY

>accession|Q6W8Q2.1|Allergen RecName: Full=1-Cys peroxiredoxin PER1;
AltName: Full=Rehydrin homolog; AltName: Full=Thioredoxin peroxidase
[Triticum aestivum]
MPGLTIGDTPVNLLELDSTHGKIRIHQYVNGYVILFVSHPGDFTPVCTTELAAMANYAKEF
EKRGVKLLGISCDVQSHKEWTKDIEAYKPGSKVTYPIMADPDRSAIKQLNMVDPDEKDA
EGQLPSRTLHIVGPDKKVKSFLYPSCTGRNMDEVVRAVDSLLTAAKHKVATPANWNPGE
CVVIAPGVSDDEAKKMFPPQGFETADLPSKKGYLRFTKV

>accession|ABA39435.1|Allergen Der p 1 allergen precursor, partial
[Dermatophagoides pteronyssinus]
RPSSIKPFEEYKKAFFNKSYATFEDEEAARKNFLESVKYVQSNNGAINHLSLSDLSLDEFKNR
FLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDLRQMRVTPPIRMQGGCGSCWAFSGV
AATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYYRYVARE
QSCRRPNAQRFGISNYCQIYPPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGRITIIQ
RDNGYQPNYHAVNIVGYSNAQGVYDVIWRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVV
IL

>accession|ABA39436.1|Allergen Der f 1 allergen precursor
[Dermatophagoides farinae]
RPASIKTFEEFKKAFNKNYATVEEEEVARKNFLESVKYVEANKGAINHLSLSDLSLDEFKNR
YLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRLRTVTPPIRMQGGCGSCWAFSG
VAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEERSYPYVAR
EQQCRPNQSHYGISNYCQIYPPDVKQIREALTQTHTAIAVIIGIKDLRAFQHYDGRITII
QRDNGYQPNYHAVNIVGYGSTQGVYDVIWRNSWDTT

>accession|ABA39437.1|Allergen Der p 2 allergen precursor
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNSKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIRD

>accession|ABA39438.1|Allergen Der f 2 allergen precursor
[Dermatophagoides farinae]
DQVDVKDCANNEIKKVMVDGRHGS DPCIIHRGKPF TLEALFDANQNTKTAKIEIKANING
LEVDVPGIDTNACHFVKCPLVKGQQYDIKYTWNVPKIAPKSENVVVTVKLIGDNGVLACA
IATHAKIRD

>accession|ABA42918.1|Putative putative alpha/beta hydrolase superfamily
protein [Davidiella tassiana]
MPAGLQYVTTDGGRLAVEITGKETDPLVICSPGMGDRDAYKPLAKVLVSNNGYRVAAMDA
RAHGESSAKFARYGDEATADDFLTVANELSPGSPVVLGASFSAAAATIAAAKQPERVSK
IILLGPFRLRNGMGVGLWLMPVMFAWPWGPAAWEMYAATLWPGLEGDGAKKRAATTRASL
TRPGRWAGFQALISSLDHRVVAPYISSVRAPALVVMGDKDPDWSDPKVEAEWVASNFSQV
DTLMVPEAGHAPMYERPQVVAERVL SFLGDQTNV

>accession|CAA55071.2|Putative aldehyde dehydrogenase (NAD+) [Alternaria
alternata]
MTSVKLSTPQTGEFEQPTGLFINNEFVKAVDVGKTFDVINPSTEEVICSVQEATEKDVDIA
VAAARKAFNGPWRKETPENRGKLLNKLADLFEKNADLIAAVEALDNGKAFSMAKNVDVPA
AAGCLRYGGWADKIEGKVVDTAPDSFNIRKEPIGVCGQIIPWNFPILMWSWKIGPAIA
TGNTVVLKTAEQTPLSAYIACKLIQEAGFPFVINVITGFGKIAGAAMSAHMDIDKIAFT
GSTVVGRQIMKSAAGSNLKKVTLELGGKSPNIVFADADLDEAIHWNVFGIYFNHGQACCA
GSRIYVQEEIYDKFIQRFKERRAAQNAVGDPPAADTFQGPQVSQQLQFDRIMGYIEEGKKS

ATIETGGRNRKGDKGYFIEPTIFSNVTEDMKIQEEIFGVPVCTISKFKTKADVIGKIGNNTT
YGLAAAVHTSNLTTAIEVANALRAGTVVWVNSYNTLHWQLPFGGYKESGIGRELGEAALDN
YIQTKTVSIRLGDVLF

>accession|CAA55072.2|Putative aldehyde dehydrogenase (NAD+) [Davidiella
tassiana]

MTSVQLETPHSGKYEQPTGLFINNEFVKQEGKTFDVINPDESIVITQVHEATEKDVDIA
VAAARKAFEGSWRQETPENRGKLLNNLANLFEKNIDLLAAVESLDNGKAISMAKGDISMC
VGCLRYGGWADKITGKVIDTTPDTFNYVKKEPIGVCGQIIPWNFPLLMWAWKIGPAIAC
GNTVVLKTAEQTPGLGLVAASLVKEAGFPVGVINVISGFGKVAGAALSSHMDVDKVAFTG
STVVGRTILKAAASSNLKVKVTELELGGKSPNIVFEDADIDNAISWVNFGIFFNHGQCCAG
SRVYVQESIYDKFVQKFKERAQKNVVGDPFAADTFQGPQVSKVQFDRIMEYIQAGKDAGA
TVETGGKRKGDKGYFIEPTIFSNVTEDMKIVKEEIFGVPVCSIAKFKTKEDAIKLGNASTY
GLAAAVHTKNLNTAIEVSNALKAGTVVWVNTYNTLHHQMPFGGYKESGIGRELGEDALANY
TQTKTVSIRLGDALFG

>accession|Q06811.2|Putative ABA-1 polyprotein precursor (Body fluid
allergen 1) (Allergen Asc s 1) (Nematode polyprotein allergen ABA-1) (NPA
ABA-1) [Contains: ABA-1B1 repeat unit; ABA-1A4 repeat unit; ABA-1A3
repeat unit; ABA-1A2 repeat unit; ABA-1A1 repeat unit; C-terminal extensi
[Ascaris suum]

TMEHYLKYLSWLTEEQKEKLEKEMKEAGKTKAEIQHEVMHYDQLHGEEKQQATEKLVG
CKMLLKGIIGEEKVVELLRNMKEAGADIQELQQKVEKMLSEVTDEKQKEKVHEYGPACKKI
FGATTLQHRRRRRHFTLESSLDTHLKWLSQEQKDELLKMKKDGKTKKELEAKILHYDE
LEGDAKKEATEHLKGGCGEILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDE
EKKQYIADFGPACKKIYGVHTSRRRRRHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAK
KELEAKILHYDELEGDAAKKEATEHLKGGCAEILKHVVGEEKAAELKNLKDSGASKEELK
AKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRRHFTLESSLDTHLKWLSQEQK
DELLKMKKDGKTKKDLQAKILHYDELEGDAAKKEATEHLKDGCREILKHVVGEEKAAELK
KLKDSGASKEEVKAKVEEALHAVTDEEKKQYIADFGPACKKIFGAAHTSRRRRRHFTLES
SLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYDELEGDAAKKEATEHLKGGCREI
LKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVH
TSRRRRRHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYDELEGDAAK
EATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIA
DFGPACKKIYGVHTSRRRRRHFTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKI
LHYDELEGDAAKKEATEHLKGGCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEAL
HAVTDEEKKQYIADFGPACKKIYGVHTSRRRRRHFTLESSLDTHLKWLSQEQKDELLKMK
KDGAKELEAKILHYDELEGDAAKKEATEHLKGGCREILKHVVGEEKAAELKNLKDSGA
SKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRRHFTLESSLDTHLKW
LSQEQKDELLKMKKDGKAKKELEAKILHYDELEGDAAKKEATEHLKGGCREILKHVVGEE
KAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIADFGPACKKIYGVHTSRRRRRH
FTLESSLDTHLKWLSQEQKDELLKMKKDGKAKKELEAKILHYDELEGDAAKKEATEHLK
GCREILKHVVGEEKAAELKNLKDSGASKEELKAKVEEALHAVTDEEKKQYIADFGPACK
KIYGVHTSRRRRYHAEDGTTDDIDGLAQSRQRSGFFFEKLIDVFAFF

>accession|ABA81885.1|Putative profilin-like [Solanum tuberosum]
MSWQTYVDEHLLCEIEGNHLTSAAIIGQDGTVWAQSANFPQFKPEEITGVMNDFAEPTGL
APTGLYLGGTKYMIQGEPEGAVIRGKKGPGGITIKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>accession|BAE46763.1|Putative dark muscle parvalbumin [Trachurus
japonicus]

MAFKGVLNDAVDTAALDGCKSAFDHKAFFKACGLAAKSADDIKKAFAIIDQDKSGFIEED
ELKLFQNFCAAGARALSDAETKAFKAGDSDGDGKIGVDEFAAMVKH

>accession|ABB16985.1|Putative profilin-like protein [Solanum tuberosum]
MSWQTYVDEHLLCEIEGNHLTSAAIVGQDGTVVAQSANFPQFKPEEISGIMNDFAEPTL
APTGLYLGGTKYMVIQGEFPAVIRGKKGPGGITIKKTNQALIIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>accession|CAI43283.4|Putative mala s 12 allergen precursor [Malassezia
sympodialis]
MKGIVSWAVVSAALVLSATESLAFANVSSFEKRTTTGNGWDLGKSYDYVIVGGGTAGLV
LANRLSANQGTTVAVIEAGNSGYDDNDKFVVPDANLYNSAVNTQYDWQFHTSSQKHMMNR
RASWPRGKVLGGSSAVNGLYYVRPSETEVNVSWSKLAGGSGRWSWNSLLSGMKKSEHFRGP
VKSQVQNLQIQYNAGSHGSNGPIGTTWPAVTYDPVERFIKTADSMGAINNDPYNGNNHG
TYVALSSIDKTNWQSRFSRNGYLDPI SKRNLHVLVTGHTVTGII FDRSGKNAQATGVHYA
ASSNEASHTVHANKEVIISGGAINSPQILQLSGIGDKNLLNGLGIDVVVDLPGVGENLQD
HVSAGMSFKPKNKDAGPTSVTGDADSYVNSAVSYTSLGKLFNNKDSILGKIQARAKQ
IADSHNVSPAVKQSQSKAYNALADTIFPSKVSPVEILGNVMFGSISIQAAALQHPLSRGSI
KITSKDPFAYPKINPNYFAENLDLVLREGFKLIREMSQQSPLKDVDFETVPGDKVQTN
EDWENWIRSAAGTEYHPSSTCAMLPRGDGGVV DENLKVYGTSNLRVVDASVTP IAMSCHL
ESVYGLAEVAADIILGN

>accession|AAY84564.2|Putative group 15 allergen protein
[Dermatophagoides pteronyssinus]
MKTSCAILILMACFGLMNAAVKRDHNNYSKNPMRIVCYVGTWSVYHKVDPYTIEDIDPFK
CTHLMYGFAKIDEYKYTIQVFDPYQDDNHTWEKHGYERFNNLRLKNPELTTMISLGGWY
EGSEKYSDMVANPTYRQQFVQSVLDFLQEQYKFDGLDLWEYPGSRLGNPKIDKQNYLTLV
RELKEAFEPFGYLLTAAVSPGKDKIDVAYELKELNQLFDWMNVMTYDYHGGWENVFGHNA
PLYKRPDETDELHTYFNVNYTMHYLNNGATRDKLVMGVPFYGRAWSIEDRSKVKLGDPA
KGMSPPGFITGEEGVLSYIELCQLFQKEEWHIQYDEYYNAPYGYNDKIWVGYYDDLASISC
KLAFLEKELGVSVMWISLENDDFKGGHCGPKYPLLNVHNMINGDEKNSYECLLGPSTTTP
TPTTPTSTPTTPTPTTPTSTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTT
STTTPTTTTSTSETPKYTTYVDGHLIKCYKEGDLPHPTNIHKYLVCEYVNGGWVWHIM
PCPPGTIWCQEKLTCITE

>accession|ABB52642.1|Allergen tropomyosin [Dermatophagoides
pteronyssinus]
MEAIGNKMQAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRLQKKIQQIENELDQV
QEQLSAANTKLEEKEKALQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA
DESERMKMLEHRSITDEERMEGLENQSKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQOREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVGRLEDELVHEKEKYKSISDELDDQTFEAL

>accession|Q63213|Putative Alpha-2u globulin [Rattus norvegicus]
MKLLLLLLCLGLTLVCGHAEAEASFERGNLDVDKLNWDWFSIVVASDKREKIEENGSMRVF
VQHIDVLENSLGFTFR IKENGVCTEFSLVADKTAKDGEYFVEYDGENTFTILKTDYDNYV
MFHLVNVNNGETFQLMELYGR TKDLSSDIKEKFAKL CVAHGITRDNIIDLTKTDRC LQAR
G

>accession|ABB78006.1|Allergen major allergen Pru p 1 [Prunus persica]
MGVFTYESEFTSEIPPRFLKAFVLDADNLVPKIAPQAIKHSEILEGDGGPGTIKKITFG
EGSQYGYVKKHIDSIDKENHSYSYTLIEGDALGDNLEKISYETKLVASPSGGSIKSTSH
YHTKGDVEIKEEHVKAGKEKASNLFKLIETYLKGHPDAYN

>accession|ABB88514.1|Putative arginine kinase [Bombyx mori]
MVDAATLEKLEAGFSKLGSDSKSLLKYL TREVFDSLKNKKT SFGSTLLDCIQSGVENL

DSGVGIYAPDAESYSVFAELFDPIIEDYHNGFKKTDKHPPKNWGDVDTLGNLDPAGEFVV
STRVRCGRSLEGYFPNCLTESQYKEMEDKVSGLSSLEGELKGTFFYPLTGMSKETQQQL
IDDHFLFKEGDRFLQAANACRFWPTGRGIYHNENKTFVLWCNEEDHLRIISMQMGDLQQ
VYKRLVSAVNEIEKKIPFSHHDLRGLFTFCPTNLGTTVRASVHIKLPKLAADKKKLEEVA
SKYHLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMYDGAELIKIEKSL

>accession|ABB89296.1|Putative allergen Bla g 6.0101 [Blattella
germanica]
MDELPPEQIQLLKKAFAFDREKKGCISTEMVGTILEMLGHRLLDDMLQEIIAEVDADGS
GELEFEFVSLASRFLVEEDAEMQOELREAFRLYDKEGNGYITTNVLREILKELDDKIT
AEDLDMMIEEIDSDGSGTVDFDEFMEVMTGE

>accession|ABB89297.1|Putative allergen Bla g 6.0201 [Blattella
germanica]
MDEIPAEQVLLKKAFAFDREKKGCISTEMVGTILEMLGTRLDQDMLDEIIAEVDADGS
GELEFEFVCTLASRFLVEEDAEMQHELREAFRLYDKEGNGYITTAVLREILKELDDKIT
AEDLDMMIEEIDSDGSGTVDFDEFMEVMTGE

>accession|ABB89298.1|Putative allergen Bla g 6.0301 [Blattella
germanica]
MADEQLQLPPEQISVLRKAFAFDREKSGSISTNMVVEILRLMGQPFRNRRTLEELIDEVD
ADKSGRLEFDEFVTLAAKFIIEEDSEAMEKELREAFRLYDKEGNGYIPTSLREILRELD
EQLTSDELDMMIEEIDADGSGTVDFDEFMEMMTG

>accession|ABB89950.1|Putative catalase [Penicillium citrinum]
MHLAFATDLVGIANAACPYMTGEVPGDYSPHELHRRADEGAADNTEEFLSQFYLNKDKA
YLTSVGGPIEDQNSLSAGERGPTLLEDIFRQKIQHFDHERVPERAVHARGAGAHGVFT
SYADWSNITAASFLSKKDKETPMFVRFSTVAGSRGSADTARDVHGFATRFYTDENFDIV
GNNIPVFFIQDAIQFPDLIHAVKPSGDNEIPQAATAHDSAWDFFSQQPSSLHTLLWAMAG
HGIPRSFRNVDFGVHTFRFVTDGSKSKLVKFWKGLQGKASLVWEEAQQISGKNPDFLR
QDLWDAIEAGRFPWELGVQIMDEEDQLRFGFDLLDPTKIVPEEIIIPVTKLGKMTLNRNP
RNYFAETEQVMFQPGHIVRGVDFTTDDPLLQGRLLSYLDTQLNRHGGPNFEQLPINRPRTP
IHNNNRDAGQMFIPLNKDAYSPNTLNNASPKQANQTTGKGFFTTSPSRKNGKLRQRTVSS
TFEDVWSQPRLFWNSLVEAEKQFVVDATRFENSNVSDIVRNNVIIQLNRISNDLAKRVA
EAIGIEAPKPDPSFYHDNTTAHIGAFGQKLLKLEGLKVGVLASVQNASSVSSAASLQSQL
KDAGVDVVVVAERLGDGVNQTYSGSDAIQFDAVVVADGAEGLFSSRSFTEKPVKNKASSL
FPAGRPLDILVDAFRFGKPVGAIGKGAALRAAQISSDREGVYAAKSIGNEFVKGLKEGL
RIFKFLDRFALDA

>accession|Q96X30.3|Putative Enolase (2-phosphoglycerate dehydratase) (2-
phospho-D-glycerate hydro-lyase) (Allergen Asp f 22) [Aspergillus
fumigatus]
MPISKIHARSVYDSRGNPTVEVDVVTETGLHRAIVPSGASTGQHEAHEL RDGDKTQWGGK
GVLKAVKNVNETIGPALIKENIDVKDQSKVDEFLNKL DGTANKSNLGANAILGVSLAVAK
AGAAEKGVPLYAHISDLAGTKKPYVLPVPPQNVNLNGGSHAGGRLAFQEFMIVPDSAPSFS
EALRQGAEVYQKLKALAKKKYQGSAGNVGDEGGVAPDIQTAEALDLITEAIEQAGYTGK
IKIAMDVASSEFYKADVKKYDLDFKNPESDPSKWLTYEQLADLYKSLAAKYPIVSIEDPF
AEDDWEAWSYFYKTSDFQIVGDDLTVTNPGRIKAIELKSCNALLLKVNQIGTLTESIQ
AKDSYADNWGMVSHRSGETEDVTIADIAGLRSQIKTGAPCRSERLAKLNQILRIIEE
LGENAVYAGSKFR TAVNL

>accession|P79017.2|Putative Major allergen Asp f 2 precursor (Asp f II)
[Aspergillus fumigatus]
MAALLRLAVLLPLAAPLVATLPTSPVPIAARATPHEPVFFSWDAGAVTSFPIHSSCNATQ

RRQIEAGLNEAVELARHAKAHILRWGNESEIYRKYFGNRPTMEAVGAYDVIVNGDKANVL
FRCDNPDGNCALLEGWGGHWRGANATSETVICDRSYTTRRWLVSMCSQGYTVAGSETNTFW
ASDLMHRLYHVPVAVGQGVVDHFADGYDEVIALAKSNGTESTHDSEALQYFALEAYAFDIA
APGVGCAGESHGPDPQGHDTGSASAPASTSTSSSSSGSGSGATTTPTDPSATIDVPSNCH
THEGGQLHCT

>accession|060024.2|Allergen Allergen Asp f 4 precursor [Aspergillus
fumigatus]

MLKNSMLLLTALAAGSSVARLHGHERHLHHAGEKREVGDTVYATINGVLVSWINEWSG
EAKTSDAPVSQATPVSNAAAAAASTPEPSSSHSDSSSSSGVSADWTNTPAEGEYCTDG
FGGRTEPSGSGIFKYKGNVGPWGSNIIIEVSPENAKKYKHVAQFVGSDDPWTVVFWNKIG
PDGGLTGWYGNALTLHLEAGETKYVAFDENSQGAWGAAGDELPKDQFGGYSCTWGEFD
FDSKINQGWSGWDVSAIQAENAHHEVQGMKICNHAGELCSIIISHGLSKVIDAYTADLAGV
DGIGGKVVPGPTRLVVNLDYKE

>accession|042799.2|Putative Allergen Asp f 7 precursor [Aspergillus
fumigatus]

MAPIFKSLALVSALFAAIISSAAPVNLDKREVDVVWTTVTTVVWTTIDVTTTTIYPTPQAPT
PPVESTPTPTPSAAPEQAEP IETSTQPETTKSQPTQPSVATFIPVAAAAAADSAAPIP
EEPAPQPATTAAPSTSTTTQAAPSAPPAANSNGSTEKAASSGYSGPCSKGSPCVGQLTYD
TATSASAPSSCGLTNDGFSENVVALPVGIMTDADCGKTVTITYNGITKTATVVDKCMGCK
PTDLASRHLFGELADFSAGRIDGMSWYFN

>accession|Q8NKF4.2|Putative 60S ribosomal protein L3 (Allergen Asp f 23)
[Aspergillus fumigatus]

MSHRKYEAPRHGSLAFLPRKRAARHRGKVKSFPKDDPKKPVHLTASMGYKAGMTTVVRDL
DRPGAKMHKKEIVEAVTIIETPPLVAVGVVGYIETPRGLRSLTTVWAEHLSDEVKRRFYK
NWKSKKKAFKTYAKKHAEENGASITRELERIKKYCTVVRVLAHTQIRKTPKQKKAHLM
EIQVNGGVSADKVDFAFNLFKPIEIDSIFEKDEMIDVIAVTKGHGFQGVTSRWGTTKLP
RKTHKGLRKVACIGAWHPSHVQWTVARAGQMGYHHRTSCNHKVFRIKGSDEGNASTDFD
ISKKQITPMGGFVRYGEVKNDYIMVKGSVPGVKKRVMTLRKTLYPQTSRRATEKVELKWI
DTSSKFGHGAFQTPPEEKRAFMGTLKLDLVTSA

>accession|Q9UUZ6.2|Allergen 60S acidic ribosomal protein P2 (Allergen
Asp f 8) (AfP2) [Aspergillus fumigatus]

MKHLAAYLLLALAGNTSPSSSEDVKAVLSSVGIDADEERLNKLI AELEGKDLQELIAEGST
KLASVPSGGAAAAAPAAAGAAAGGAAAPAAEEKKEEKEEESDEDMGFGLFD

>accession|Q92450.3|Allergen Superoxide dismutase [Mn], mitochondrial
precursor (Allergen Asp f 6) [Aspergillus fumigatus]

MSQQYTLPLPYPDALQPYISQQIMELHKKHHQTYVNGLNAALEAQKKAEEANDVPKL
VSVQQAIFNNGGHHINSLFWKNLAPEKSGGGKIDQAPVLKAAIEQRWGSFDFKDFANT
TLLGIQSGWGWLVTDGPKGKLDITTTTHDQDPVTGAAPVFGVDMWEHAYYLQYLNDKASY
AKGIWNVINWAEAEENRYIAGDKGGHPFMKL

>accession|CAJ43561.1|Allergen staphylococcal enterotoxin B precursor
(SEB) [Staphylococcus aureus]

IFVLILVISTPNVLAESQDPKPELHKASKFTGLMENMKVLYDDNHVSAINVKSIDQFL
YFDLIYSIKDTKLGNVDNVRVEFKNKDLADKYKDKYVDVFGANYYYQCYFSKKTNDINSH
QTDKRKTCMYGGVTEHNGNQLDKYRSITVRVFEDGKNLLSFDVQTNKKKVTAQELDYLTR
HYLVKNKKLYEFNNSPYETGYIKFIENENSFWDMPAPGDKFDQSKYLMMYNDNKMVDS
KDVKIEVYLTTKK

>accession|ABC02750.1|Putative profilin [Litchi chinensis]

MSWQAYVDDHLMCETDGQHLTAAAIIGHDGSVWAQSANFPQFKPVEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEFPAVIRGKKGPGGITVKKTTQALIIGIYDEPMTPGQCNMVVE
RLGDYLVDDQGL

>accession|ABC18306.1|Putative 16 kDa allergen [Fagopyrum esculentum]
MKLFIIILATATLLIAATQATYPRDEGFDLGETQMSSKCMRQVKMNEPHLKKCNRYIAMDI
LDDKYAEALSRVEGEGCKSEESCMRGCCVAMKEMDDECVCCEWMKMMVENQKGRIGERLIK
EGVRDLKELPSKCGLSELECGSRGNRYFV

>accession|BAE54429.1|Putative tropomyosin [Sepia esculenta]
MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKTEEDLSTLQKKYSNLENDFDNA
NEQLTAANTNLEASEKRVACESEIQGLNRRRIQLLEEDLERSEERLTSAQSKLEDASKAA
DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKSISELDQTFFAELAGY

>accession|BAE54430.1|Putative tropomyosin [Sepioteuthis lessoniana]
MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKTEEDLSTLQKKYANLENDFDNA
NEQLTAANTNLEASEKRVACESEIQGLNRRRIQLLEEDLERSEERFSSAQSKLEDASKAA
DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKTISELDQTFFAELAGY

>accession|BAE54431.1|Putative tropomyosin [Todarodes pacificus]
MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEAAKNTEEDLSTLQKKYSNLENDFDNA
KENLTVANTNLEASEKRVNECESEIQGLNRRRIQLLEEDLERSEERLTSAQSKLEDASKAA
DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKTISELDQTFFAELAGY

>accession|BAE54432.1|Putative tropomyosin [Ommastrephes bartramii]
MDAIKKKMLAMKMEKEVATDKAEQTEQSLRDLEDAKNKTEEDLSTLQKKYANLENDFDNA
NEQLTAANTNLEASEKRVACESEIQGLNRRRIQLLEEDLERSEERFSSAQSKLEDASKAA
DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKTISELDQTFFAELAGY

>accession|BAE54433.1|Putative tropomyosin [Octopus vulgaris]
MDAIKKKMLAMKMERELATDKAEQTDQKLRDTEENKNKLEEDLTTLQKKFSNLENDFDNA
KEQLAEANQKLETSEKRVGECESEIAGLNRRRIQLLEEDLERSEERLSTAQTKLDEASKAA
DESERGRKVLNRSQGEERIDLLEKQLEEKWIAEDADRKFDEAARKLAITEVDLERAE
ARLEAAEAKIVELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTHRLKEAENRAA
EAERTVSKLQKEVDRLEDELLAEKERYKAISDELQTFFAELAGY

>accession|2AS8_B|Allergen Chain B, Crystal Structure Of Mature And Fully
Active Der P 1 Allergen [Dermatophagoides pteronyssinus]
TNACRINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAYRQQLDLAEQ
ELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYRYVAREQSCRPNQAQRFGISNYCQIY
PPNANKIREALQTHSAIAVIIGIKDLDAFRHYDGRITIIQRDNGYQPNYHAVNIVGYNSA
QGVYWIWRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVIL

>accession|2CYG_A|Allergen Chain A, Crystal Structure At 1.45- Resolution
Of The Major Allergen Endo-Beta-1,3-Glucanase Of Banana As A Molecular
Basis For The Latex-Fruit Syndrome [Musa acuminata]

IGVCYGMLGNNLPPPSEVVSLYKSNNIARMRLYDPNQALQALRNSNIQVLLDVPRSDVQ
SLASNPSAAGDWIRRVVAYWPSVSFRYIAVGNELIPGSDLAQYILPAMRNIYNALSSAG
LQNQIKVSTAVDTGVLGTSYPPSAGAFSSAAQAYLSPIVQFLASNGAPLLVNVYPYFSYT
GNPGQISLPYALFTASGVVVDGRFSYQNLFDIVDAVFAALERVGGANVAVVVSESGWP
SAGGGAEASTSNAQTYNQNLIRHVGGTTPRRPGKEIEAYIFEMFNENQKAGGIEQNFGLF
YPNKQPVYQISF

>accession|Q948T6.2|Putative Lactoylglutathione lyase (Methylglyoxalase)
(Aldoketomutase) (Glyoxalase I) (Glx I) (Ketone-aldehyde mutase) (S-D-
lactoylglutathione methylglyoxal lyase) (Allergen Ory s ?) (Allergen
Glb33) (PP33) [Oryza sativa]

MASGSEAEKSPEVVLEWPKKDKRLLHAVYRVGDLDRTIKCYTECFGMKLLRKRDPVEEK
YTNAFLGFGPEDTNFALELTNYNYGVDKYDIGAGFGHFAIATEDVYKLAEKIKSSCCCKIT
REPGPVKGGSTVIAFAQDPDGYMFEIQRGPTPEPLCQVMLRVGDLDRSIKIFYEKALGMK
LLRKKDVPDYKYTIAMLYADEDKTTVIELTYNYGVTEYTKGNAYAQVAIGTEDVYKSAE
AVELVTKELGGKILRQPGPLPGLNTKIASFLDPDGWKKVVLVDNADFLKELQ

>accession|ABC68516.1|Putative alpha-amylase [Blattella germanica]

MKLFPLVALLVLVVGVLVLSQKDPHVWDGRSAIVHLFEWKFADIADCEFLGPKGFAGVQV
SPVHENVIISSPFRPWERYQLVSYKLVSRSGDENAFRDMVRRCNVGIYVVDVVLNQM
SGSWPDAHGQGGSTADTYNLQYPAVPYGPFGDFHSTCTVSNYQDPSNVRNCELVGLHDLNQ
GSDYVRGKMI EYLNHLVDCGVAGFRVDAAKHMWPADLQYIYSKVNNLNTDHGFPSGARPF
FYQEVIDLGGEAIHSTEYTGFRVTEFKYSRDIGDAFRGNNAIKWLVNFGVGVWGYIPDGD
ALVFVDNHDNQRGHGAGGASILTYKTSKLYKMAVAFMLAYPYGYPRVMSSFSFDNSDQGP
PQDGNNGNII SPSINADGTCGNGWVCEHRWRQIFNMVGFRAVAGTAVSNWWDNGDKQISF
CRGNKGFVAFNDEFNNDLKQTLQTCPLAGDYCDVISGSYENGSCGTGKTVTVGS DGKAYIE
ILSSADDGVLAIHVNSKVGSKSQTTTTQSSHCTCS

>accession|P46075.3|Putative RecName: Full=Extracellular elastinolytic
metalloproteinase; Flags: Precursor [Aspergillus fumigatus]

MRGLLLAGALALPASVFAHPAHQSYGLNRRRTVDLNAFRLKSLAKYVNATETVIEAPSSFA
PFKPQSYVEVATQHVKMIAPDATFRVVDHVDNGVAHVHFRQTANGLDIDNADFNVNV
GKDGKVFVSYGNSFYTGQIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTEEK
ESYVFKGVSGTVSDPKAKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVV
DYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTTSRGNNGIAQSN
PSGGSSYLNNYRPSSSSSLSFKYPYSVSSSPSSYIDASIIQLFYTANIYHDLTYTLGTFE
KAGNFEYNTNGQGGLNDYVILNAQDGSNTNANFATPPDQGPGRMRMYVWTESTPYRDG
SFEAGIVIEHYTHGLSNRLTGGPANSNCLNALES GGMGEGWSDFMATAIRLKPDKRSTD
YTMGEWASNRAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAI GTVWASMLYEVLWNLIDK
HGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMALQPCNPNFVQARDAILDADTALTGGENQ
CEIWTAFKRGLGAGAKYSSRN RVGSTEVP SGVC

>accession|P82947.1|Putative Major Gly 50 kDa allergen [Glycine max]
ANPTFGFTPLGLSSDAN

>accession|ABC73068.1|Allergen venom allergen 5 [Vespula maculifrons]

MEISGLVYLIIIVTIIDLPYGKANNYCKIKCLKGGVHTACKYGLKPNCGNKVVVSYGLT
KQEKQDILKEHNDFRQKVARGLETRGNPGPQPPAKNMKNLVWNEDELAYVAQVWANQCQYG
HDTCDRVAKYQVGQVALTGSTA AKYENPVNLVKMWENEVKDYNPKKKFSENNFIKIGHY
TQM V WANTKEIGCGSMKYTENKWHYHYLVCNYGPGSGNFGNEELYQTK

>accession|ABC73706.1|Allergen allergen precursor [Dermatophagoides
pteronysinus]

MKFIITLFAAIVMAAAVSGFIVGDKKEDEWRMAFDRLMMEELETKIDQVEKGLLHLSEQY

KELEKTKSKELKEQILRELTIGENFMKGALKFFEMEAKRTDLNMFERYNYEFALESIKLL
IKKLELAKKVKAVNPDEYY

>accession|P84527.1|Putative Kiwellin (Allergen Act c ?) [Actinidia
deliciosa]

ISSCNGPCRDLNDCDGLICIKGKCNDDPQVGTHICRGTTSHSHQGGCKPSGTLTCRGKS
YPTYDCSPPVTSSTPAKLTNNDSEGGDDGGPSECDESYHNNNERIVALSTGWYNGGSRG
GKMIRITASNGKSVSAKVVDECDSRHGCDKEHAGQPPCRNNIVDGSNAVWSALGLDKNVG
VVDITWSMA

>accession|Q00002.2|Putative Protein disulfide-isomerase (PDI) (Allergen
Alt a 4) [Alternaria alternata]

ARDMTKQALPAVSEVTKDTLEEFKTADKVVLVAYFAADDKASNETFTSVANGLRDNFLFG
ATNDAALAKAEGVKQPGLVCTSPSTTARTSSPRPSMRTYPRLRKVASTPLIGEVGPETYA
GYMAAGIPLAYIFAETPEEREEFAKELKPLALKHKGEINFATIDAKSFGQHAGNLNLKVG
TWPFAIQRTEKNEKFPPTNQEAKITEKEIGKFDVDDFLAGKIDPSIKSEPIPESENDGPVTV
VVAHNYKDVVIDNDKDVLFVEFYAPWCGHCKALAPKYEELGQLYASDELKLVTIKVDAT
LNDVPEIQGFLPSSLFPLARRMPQSTTLVPHCRGSRPVHRRERLTQASASVGEAVEDAT
ESAKASASSATDSAAVAVSEGTETVKSGASVASDSASSAASEATKSVKSAASEVTNSASS
AASEASASASSVKDEL

>accession|ABC96702.1|Allergen Der s 2 a allergen [Dermatophagoides
siboney]

MISKILCLSLLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFPTLEALFDA
NQNTKTAKIEIKANIDGLEVDVPGIDTNACHFIKCPVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLIQDNGVLACAIATHAKIRD

>accession|ABD39049.1|Allergen Fra a 1-A allergen [Fragaria x ananassa]

MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAHPGGTVIKTTTSK
YHTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>accession|1Z3Q_A|Allergen Chain A, Resolution Of The Structure Of The
Allergenic And Antifungal Banana Fruit Thaumatin-Like Protein At 1.7a
[Musa acuminata]

ATFEIVNRCSYTVWAAAVPGGGRQLNQGSWTINVNAGTTGGRIWGRGTGCSFDGSGRGRG
QTGDCGGVLSCTAYGNPNTLAEFALNQFNLDFFDISLVDGFNVPMDFSPTSGGCRGIR
CAADINGQCPGALKAPGGCNPCTVFKTDQYCCNSGACSPTDYSQFFKRNCPDAYSYPKD
DQTTTFTCPGGTNYRVVFCP

>accession|ABD51779.1|Putative allergen Api m 6 variant 2 precursor
[Apis mellifera]

MSRLVLASFLLLAVFMSLVGGFGGFGGGLGGRGKCPNSNEIFSRCDGRCQRFPCPNVVPK
PLCIKICAPGCVCRLGYLRNKKKVCVPRSKCLPG

>accession|ABD79094.1|Putative Zea m 1 allergen [Zea mays]

MWSLMQAQVAMVVALSFLVSGAWCGPPKVPKGNITATYKGDWLDKATWYGKPTGAGPD
DNGGGCGYKDVNKPFPNSMGACGNIPFKDGLGCGSCFEIKCDKPVESGKPVVVHITDM
NYEPIAAYHFDLAGTAFGAMAKKGEEELRKGAGIIDMQFRRVKCKFGSKVSFHLEKGC
NYPYLAALVYVDGDGDIVPVDIKEKGSPTYEPLKHSWGAIWRKDSKPLKGLTVRLTTEG
GTKTVYDDVIPANWKANTAYTAK

>accession|ABD79095.1|Putative Zea m 1 allergen [Zea mays]

ARALVFLVSGAWCGPPKVPKGNITATYKGDWLDKATWYGKPTGAGPDDNNGGGCGYKDV

NKPPFNSMGACGNIPIFKDGLGCGSCFEIKCDKPVVECSGKPVVHITDMNYEPIAAYHFD
LAGTAFGAMAKKGEEEKLRKAGIIDMQFRRVKCKYDSKVTFHLEKGCNPYLALLVKYVD
GDGDIVAVDVKEKGSPTYEPLKHSWGAIWRKSDSKPLKGPLTVRLTTEGGTKSVYDDVIP
ANWKANTAYTAK

>accession|ABD79096.1|Putative Zea m 13 allergen [Zea mays]
MACIDNAMRALFLLALFCVVHGEKAKSKDNDKASGPGGSFDITKLGASNGKTDSTKAV
QEAWASACGGTGTKQILIPKGDFLVGPLNFTGPCKGDVTIQVNGNLLATTDLSQYKDHGN
WIEILRVDNLVITGKGLDGGQPAVWSKNNSCVKDYDCKILPNSLVMDFVNNGEVSGITLL
NSKFFHMNMYKCKDMLIKDVNVTAPGDSPTDGIHMGDSSGVTITNTVIGVGDDCISIGP
GTSKVNITGVTCGPGHGIGISIGSLGRYKDEKDVTDINVKDCTLKKTANGVRIKAYEDAASV
LTASKIHYENIKMEDSGYPIIIDMKYCPNKLCTANGASKVTVKDVTFKNITGTSSTPEAV
NLLCSAKIPCTGVTMDDVNIKYSGTNNKTMVCKNAKGSAGCLKELACF

>accession|ABD79097.1|Putative Zea m 13 allergen [Zea mays]
ARGALFLLALFCVVHGEKAKSKDNDKASGPGGSFDITKLGASNGKTDSTKAVQEAWAS
ACGGTGTKQILIPKGDFLVGPLNFTGPCKGDVTIQVNGNLLATTDLSQYKDHGNWIEILR
VDNLVITGKGLDGGQPAVWSKNNSCVKDYDCKILPNSLVMDFVNNGEVSGITLLNSKFFH
MNMNMYKCKDMLIKDVNVTAPGDSPTDGIHMGDSSGVTITNTVIGVGDDCISIGPGTFKVN
ITGVTCGPGHGIGISIGSLGRYKDEKDVTDINVKDCTLKKTANGVRIKAYEDAASVLTASKI
HYENIKMEDSGYPIIIDMKYCPNKLCTANGASKVTVKDVTFKNIPGTSSTPEAVNLLCSA
KIPCTGVTMDDVNIKYSGTNNKTMVCKNAKGSAGCLKELACF

>accession|ABD79098.1|Putative Zea m 13 allergen [Zea mays]
ARACTDNAMRALFLLVLFVIVHGEKEESKIDAKASGPGGFFDITKLGASNGKTDSTKA
VQEAWASACGGTGTKQILIPKGDFLVGLNFTGPCKGDVTIQVDGNLLATTDLSQYKEHG
NWIEILRVDNLVITGKGNLDGGQPAVWSKNFCTKKYDCKILPNSLVMDFVNNGEVSGITL
LNSKFFHMNMYQCKNMLIKDVTVTAPGDSPTDGIHMGDSSGVTITNTVIGVGDDCISIG
PGTSKVNITGVTCGPGHGIGISIGSLGRYKDEKDVTDINVKDCTLKKTMTFGVRIKAYEDAAS
VLTVSKIHYENIKMEDSANPIFIDMKYCPNKLCTANGASKVTVKDITFKNITGTSSTPEA
ISLLCTAKVPCTGVTMDDVNVVEYSGTNNKTMIAICTNAKGSTKGCLKELACF

>accession|CAI84850.2|Putative vicilin-like protein, partial [Lupinus
albus]
MGKMRVRFPTLVLVLGIVFLMAVSIGIAYGEKDVLSHERPEEREQEWEQPRRQRPQSRR
EEREQEQQGSPSYPRRQSGYERRQYHERSEQREEREQEQQGSPSYRRQRNPYHFNSQ
RFQTLTKNRNGKIRVLERFDQRTNRLLENLQNYRIVEFQSKPNTLILPKHSDADYVVLVNLN
GRATITIVNPDRRQAYNLEYGDALRIPAGSTSYILNPDNDQKLRVVKLAIPINNPYFYD
FYPSSTKDQQSYFSGFSRNTLEATFNTRYEEIQRILLGNEDEQEYEEQRRGQEQSHQDEG
VIVRVSREIQELTKYAQSSSGKDKPSQSGPFNLSNEPIYSNKYGNFYEITPDRNPQVQ
DLDISLTFTEINEGALLLPHYNSKAIFIVVVGEGNGKYELVGIRDQQRQDEQEPEEPEV
RRYSARLSEGDIFVIPAGYPISVNASSNLRLLGFGINAYENQRNFLAGSEDNVIRQLDRE
VKELTFPGSAEDIERLIKNQQQSYFANALPQQQQQSEKEGRRGRRGPISII

>accession|CAJ85641.1|Allergen Major strawberry allergen Fra a 1-B
[Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAQAIKCAEILEGDGGPGTIKKITFG
EGSHYGYVKKHIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAHPGGTIIKTTSK
YHTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>accession|CAJ85642.1|Allergen Major strawberry allergen Fra a 1-D
[Fragaria x ananassa]
MGGYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAQAIKCAEILEGDGGPGTIKKITFG
EGSHYGYVKKHIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAHPGGTIIKTTSK

YHTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>accession|CAJ85644.1|Allergen Major strawberry allergen Fra a 1-C
[Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAVQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKENHTYSYSLIEGDALSDNIEKIDYETKLVSAHPGTIIKTTSKY
HTKGDVEIKEEHVKAGKEKASHLFLKIEGYLKDHPSEYN

>accession|CAJ85646.1|Allergen Major strawberry allergen Fra a 1-E
[Fragaria x ananassa]
MGVYTYENEFTSDIPAPKLFKAFVLDADNLIPKIAVQAVKCAEILEGDGGPGTIKKITFG
EGSHYGYVKHKIHSIDKVNHTYSYSLIEGDALSENIEKIDYETKLVSAHPGGTIIKTTSKY
YHTKGDVEIKEEHVKAGKEKAAHLFLKIEGYLKDHPSEYN

>accession|CAI78448.1|Putative cyclophilin [Aspergillus fumigatus]
MVKTFDDITIDGQPAGRITFKLFDEVVPKTVENFRALCTGEKGFYKGSFHRIPQFM
LQGGDFTKNGTGGKSIYGRFPDENFQLKHKDPGLLSMANAGKNTNGSQFFITTVVTSW
LDGAHVVFGEVEDGMDLVKKIESYGSASGTPKKKITIADCGQL

>accession|CAI78449.1|Putative thioredoxin [Aspergillus fumigatus]
MSHGKVIADVNPPIYKALTSSGPVVVDFATWCGPCRAVAPKVGELSEKYSNVRFIQVDV
DKVRSVAHEMNIRAMPTFVLYKDGQPLEKRVVGGNVRELEEMIKSISA

>accession|CAI78450.1|Putative thioredoxin [Aspergillus fumigatus]
MSHNVEKITDAKVFEKQVQEGSGPVIVDCSATWCGPCKAISPVFQRLSTSEEFKNAKFYE
IDVDELSEVAEELGVRAMPTFMFFKDGQKVNEVVGANPPALEAAIKAHVA

>accession|NP_001035360.1|Putative allergen Api m 6 variant 1 [Apis
mellifera]
MSRLVLASFLLLAIFSMVLVGGFGGFGGGLGGRGKCPNSNEIFSRCDGRCQRFPCNVVVK
PLCIKICAPGCVCRLGYLRNKKKVCVPRSKCG

>accession|ABF18122.1|Allergen 30 kDa salivary gland allergen variant 2
[Aedes aegypti]
MKPLVKLFLFLFCLVGLVLSRPMPEDEEPVAEGDDDDASGESEGEETTTDDAGGDGGEEN
EGEEHAGDKDAGGEDTGKEENTGHDDAGEEDAGEEDAGEEDAGEEDAEKEEKEGE
DAGDDAGSDDGEEDSTGGDEGEDNAEDSKGSEKNDPADTYRQVVALLDKDTKVDHIQSEY
LRSALNNDLQSEVRVPVVEAIGRIGDYSKIQGCFSMGKDVKKVISEEKKFKSCMSKKK
SEYQCSSEDSFAAAKSKLSPITSKIKSCVSSKGR

>accession|ABF21077.1|Putative icarapin variant 1 precursor [Apis
mellifera]
MKTGLGVLFIAAWFIACHTSFPGAHDSDSKEERKNVDTVLVLPSIERDQMMMAATFDFPSSL
FEDSDEGSNWNWNTLLRPNFLDGWYQTLQSAISAHMKKVREQMAGILSRIPEQGVVNW
IPEGANTTSTTKIIDGHVVTINETTYTDGSDDYSTLIRVRVIDVRPQNETILTTSSEAD
SDVTTLPTLIGKNETSTQSSRSVESVEDFDNEIPKNQGDVLT

>accession|ABF21078.1|Putative icarapin variant 2 precursor [Apis
mellifera]
ERDQMMMAATFDFPSSLFEDSDEGSNWNWNTLLRPNFLDGWYQTLQTHMKKVREQMAGIL
SRIPEQGVVNWNIPEGANTTSTTKIIDGHVVTINETTYTDGSDDYSTLIRVRVIDVRPQ
NETILTTSSEADSDVTTLPTLIGKNETSTQSSRSVESVEDFDNEIPKNQGDVLT

>accession|P0C1B3.1|Allergen Alpha-amylase A type-1/2 precursor (Taka-amylase A) (TAA) (1,4-alpha-D-glucan glucanohydrolase) [Aspergillus oryzae]

MMVAWWSLFLYGLQVAAPALAAPADWRSQSIYFLLTDRFARTDGGSTTATCNTADQKYCG
GTWQGIIDKLDYIQGMGFTAIWITPVTAQLPQTTAYGDAYHGYWQQDIYSLNENYGTADD
LKALSSALHERGMYLMVDVAVANHMGYDGAGSSVDYSVFKPFSSQDYFHPFCFIQNYEDQT
QVEDCWLGDNTVSLPDLDTTKDVVKNEWYDWVGLSVSNYSIDGLRIDTVKHVQKDFWPGY
NKAAGVYCIGEVLDGDPAYTCPYQNVMDGVLNYPYIYPLLNAFKSTSGSMDDLNMINTV
KSDCPDSTLLGTFVENHDNPRFASYTNDIALAKNVAAFIILNDGIPIIYAGQEQHYAGGN
DPANREATWLSGYPTDSELYKLIASANAIRNYAISKDTGFVTYKNWPIYKDDTTIAMRKG
TDGSQIVTILSNKGASGDSYTLSSGAGYTAGQQLTEVIGCTTVTVGSDGNVPPMAGGL
PRVLYPTEKLAGSKICSSS

>accession|CAI94601.1|Allergen par j1.0103 protein, partial [Parietaria judaica]

QETCGTMVRALMPCLPFVQGEKEPEPSKGCCSGAKRLDGETKTGPQRVHACECIQTAMKTY
SDIDGKLVSEVPKHCGIVDSKLPPIIDVNMDCKTLGVVPRQPQLPVSLRHGPVTGSPDPAH
KARLERPQIRVPPPAPEKA

>accession|CAK22338.1|Allergen Der p 2 allergen precursor [Dermatophagoides pteronyssinus]

MMYKILCLSLLVAAVAADQVDVKDCANHEIKKVLVPGCHGSEPCIHRGKPFQLEALFEA
NQNTKNAKIEIKASIDGLEVDVPGIDPNACHYVKCLVKGQQYDIKYTWNVPKIAPKSEN
VVVTVKVLGDNGVLACAIATHAKIRD

>accession|ABF81661.1|Putative EXPB10 [Zea mays]

CKYGSKVTFHLEKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSPTYEPLKHSWGAIWRKD
SDKPIKGPITVRLTTEGGTKTVYDDVIPAEWKPNTAYTT

>accession|ABF81662.1|Putative EXPB10 [Zea mays]

MTVVSIMWSLVQVQVLVAVALSFLVGGAWCGPPKVPKGNITANYGSDWLDKATWYGKP
TGAGPDDNGGGCGYKDVNKAFFNSMGACGNVPIFKDGLGCGSCFEIKCDKPAECGSKPVV
VYITDMNYEPIAAYHFDLAGTAFGAMAKKGEELKLRKAGIIDMQFRRVKCKYGSKVTFHL
EKGCNPNYLALLVKYVDGDGDIVAVDIKEKGSPTYEPLKHSWGAIWRKDSKPIKGPITV
RLTTEGGTKTVYDDVIPTDWPNTAYTTK

>accession|ABG02262.1|Putative 8S globulin beta isoform precursor [Vigna radiata]

MVRARVQLLLGILFLASLSVSFGIVHREHQESQEESDSRGQNNPFYFNSDRRFHTLTKNQ
YGLRVIHRFDQRSKQIQNLENYRVVEFKSKPNTLLPHHADADFLVVLNGRAILTLVN
PDGRDSYILEQGHAKIPAGTTFVLVNPNDNDNLRIIKLAIPVNNPHRFQNFLLSSTEAQ
QSYLRGFSKNILEASFDSDFKIDRVLFGEERQQHGEESQEEGVIVELKREQIRELIKH
AKSSSRKELSSQDEPFNLRNSNPIYSNKFRWYEITPEKNPQLKDLDFISSVDMKEGGL
LLPHYNSKAIIVILVINEGEAKIELVGPSPDQQQDESLEVQRYRAELSEDDVFVIPAAYPV
AINATSNLNFFAFGINAENNRNFLAGEKDNVMSEIPTEVLDVSPASGNKVEKLIKQKQ
ESHFVDAQPEQQQREEGHKGRKGSLSLILGSLY

>accession|2ATM_A|Allergen Chain A, Crystal Structure Of The Recombinant Allergen Ves V 2 [Vespula vulgaris]

SERPKRVFNIYWNVPTFMCHQYDLYFDEVTNFNINRNSKDDFQGDKIAIFYDPGEFPALL
SLKDGKYYKRNNGVPPQEGNITIHLOKFIENLDKIYPNRFSGIGVIDFERWRPIFRQNWG
NMKIHKNFSIDLVRNEHPTWNKKXIELEASKRFEKYARFFMEETLKLAKKTRKQADWGY
GYPYCFNMSPNNLVPECDVTAMHENDKMSWLFNNQNVLLPSVYVRQELTPDQRIGLVQGR
VKEAVRISNNLKHSPKVLVSYWVYVQDETNTFLTETDVKKTTFQEIIVGGDGI I IWGSSS

DVNSLSKCKRLQDYLLTVLGPIAINVTEAVN

>accession|Q40638.2|Putative Expansin-B1 precursor (OsEXPb1) (Beta-expansin-1) (OsaEXPb1.2) (OsaEXPb1.3) (Major pollen allergen Ory s 1) (Ory s I) [Oryza sativa (japonica cultivar-group)]
MASSLLLLACVVVAAMVSAVSCGPPKVPVPGPNITTSYGDKWLEAKATWYGAPKGAGPKDN
GGACGYKDVVKAPFLGMNSCGNDPIFKDGGKCGSCFEIKCSKPEACSDKPALIHVTDMDND
EPIAAYHFDLSGLAFGAMAKDGKDEELRKAGIIDTQFRRVKCKYPADTKITFHIEKASNP
NYLALLVKYVAGDGDVVEVEIKEKGSEEWKALKESWGAIWRIDTPKPLKGFPSVRVTTEG
GEKIIAEDAIPDGWKADSVYKSNVQAK

>accession|ABG54494.1|Putative putative allergen Rub i 3 [Rubus idaeus]
MACSAVMKLLALLCIVVAVPVAQAITCGQVTQNVAPCFNYVKNGGAVPAACCNGVRNL
NSQAKTTADRQOTCNCLKNAAGSIPGLNPSLAAGLPGKCGVSVPYKISTSTNCATVK

>accession|ABG54495.1|Putative putative allergen Rub i 1 [Rubus idaeus]
YTSVIPPPKLFKAFVLDADNLIPIAPQAVKSVEIEGDDGGVGTVKKIHLGEGTEHSYVK
HKIDGLDKVNFVYSYSITEGDALGDKIEKISYEIKLVASGRGSIKTTSHYHCKGGAEIK
EEQVKDGERAAGLFKI

>accession|CAL07989.1|Allergen lipid transfer protein [Platanus x acerifolia]
MAFSRVAKLACLLACMVATAPHAEEAITCGTVVTRLTPCLTFLRSGGAVAPACCNGVKA
LNNDAKTTPDRQAACGLKTASTSISGIQLGNAASLAGKCGVNLPYKISPTIDCSKVK

>accession|CAK50389.1|Allergen ani s 4 allergen [Anisakis simplex]
MQSRIVVAVVVFCCIILMQTEAGMLGGSSDVDVNDPEIKELAGKSIKISAMINDGKPHF
LVKVVSAKKQVVAGDKYTLLEILVKDGDHQLDCTVTIWIQKKWENFEVVKVLKCDHQ

>accession|ABG73108.1|Putative Pis v 1 allergen 2S albumin [Pistacia vera]
MAKLVLLLSAFAFLILAANASIYRATVEVEGENLSSGQSCQKQFEEQQKFKHCQMYVQQE
VQKSQDGHSLTARINQRQQCFKQCCQELQEVDKCKRCQNLQMVKRQQQQGQFRGEKLQE
LYETASELPRMCNISPSQGCQFSSPYWSY

>accession|ABG73109.1|Putative Pis v 2.0101 allergen11S globulin precursor [Pistacia vera]
MGYSSLLSFLGFLLLFHCSFAQIEQVVNSQQRQQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFDWQNEEQQLQCANVAVFRHTIQSRGLLVPSYDPAPELVYVVQSGIHGAVFPGCP
ETFQEESQSRSRSESSQSGEQHQKVRPIQEGDVIALPAGVAHWIYNNQSKLVLVALAD
VGNSENQLDQYLRKFVLLGGSPQQEIQGSGQSRSRSSQSSRRGQQGQSSNNILSAFDEEI
LAQSFNIDTQLARRLQKEKRQRGIIIVRVQEDLEVLSPHRQEQEQEYEEERERRQRNGLEE
TFCTMTLKYNNINDPSRADVYNPRGGRVSSVNALNLPILRFLQLSAKKGVLHRDAILAPHW
NVNAHSIVYITRGNRIQIVSENGESVFDEEIREGQLVVVPQNFVAVKRASSDKFEWVSF
KTNGLSQTSQLAGRVSVFRALPLDVIKNSFDISREDARRLKESSRSETTIFAPGSSSQRKS
QSERERQREREEREI

>accession|ABG73110.1|Putative Pis v 2.0201 allergen 11S globulin precursor [Pistacia vera]
MGYSSLLSFLGFLLLFHCSFAQIEQVVNSQQRQQQRFQTQCQIQNLNALEPKRRIESE
AGVTEFDWQNEEQQLQCANVAVFRHTIQSRGLLVPSYNNAPPELVYVVQSGIHGAVFPGCP
ETFQEESQSRSRQHSRSESSQSGEQHQKVRHIREGDI IALPAGVAHWIYNNQSKLVL
VALADVGNSENQLDQYLRKFVLLGGSPQQEIQGGGQSWSSQSRSSRKGQQSSNNILSAFDEEI
LAQSFNIDTQLVKKLQREEKQRGIIIVRVKEDLQVLSQQRQEKEYSDNGLEETFTMTLKL

NINDPSRADVYNPRGGRVTSINALNLPILRFLQLSVEKGVLYQNAIMAPHWNMNAHSIVY
ITRGNRMQIVSENGESVFDEEIREGQLVVVPQNFVAVVKRASSDGFVWVSFKTNGLAKIS
QLAGRISVMRGLPLDVIQNSFDISREDAWNLKESRSEMTIFAPGSRSSQRQRN

>accession|ABG76196.1|Allergen group 2 allergen Der p 2
[Dermatophagoides pteronyssinus]
RDQVDVKDCANHEIKKVLVPGCHGSEPCI IHRGKPFQLEALFEANQNSKTAKIEIKASID
GLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVVKIAPKSENVVVTVKVMGDNGVLAC
AIATHAKIRD

>accession|ABG81289.1|Putative pollen profilin variant 2 [Phleum
pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIOGEPGAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>accession|ABG81290.1|Putative pollen profilin variant 3 [Phleum
pratense]
MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIOGEPGAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81291.1|Putative pollen profilin variant 4 [Phleum
pratense]
MSWQTYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIOGEPGAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81292.1|Putative pollen profilin variant 5 [Phleum
pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIOGEPGAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81293.1|Putative pollen profilin variant 6 [Phleum
pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIOGEPGAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81294.1|Putative pollen profilin variant 7 [Phleum
pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIOGEPGAVTRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>accession|ABG81295.1|Putative pollen profilin variant 8 [Phleum
pratense]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVATAKYMVIOGEPGAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCSMVVE
RLGDYLVKQGL

>accession|ABG81312.1|Putative pollen profilin variant 1 [Zea mays]
MSWQTYVDEHLMCEIEGHHLSSAAIVGHDGAVWAQSTAFPQFKPEEMTNI IKDFDEPGFL

APIGLFLGPTKYMVIQGEFPAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLVKQGL

>accession|ABG81313.1|Putative pollen profilin variant 2 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAIVGHGDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEFPAVIRGKKGSGGITVKKTGQAMVVGIIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>accession|ABG81314.1|Putative pollen profilin variant 3 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAIVGHGDGAAWAQSTAFPQFKTEDMANIMKDFDEPGHL
APTGLFLGPTKYMVIQGEFPAVIRGKKGSGGITVKKTGQALVVGIIYDEPMTPGQCNMVVE
RLGDYLLKQGL

>accession|ABG81315.1|Putative pollen profilin variant 4 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAIVGHGDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEFPAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLLEQGM

>accession|ABG81316.1|Putative pollen profilin variant 5 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAIVGHGDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEFPAVIRGKKGSGGITVKKTGQALVIGIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>accession|ABG81317.1|Putative pollen profilin variant 6 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAIVGHGDGAVWAQSTAFPQSKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEFPAVIRGKKGSGGITVKKTGQAMVVGIIYDEPMTPGQCNMVVE
RLGDYLLEQGL

>accession|ABG81318.1|Putative pollen profilin variant 7 [Zea mays]
MSWQAYVDEHLMCEIEGHHLTSAIVGHGDGAVWAQSTAFPQFKTEEMTNIMKDFDEPGFL
APTGLFLGPTKYMVIQGEFPAVIRGKKGSGGITVKKTGQAMVVGIIYDEPMTPGQCNMVVE
RLGDYLLNRA

>accession|ABG85155.1|Allergen pathogenesis-related protein 10 [Arachis
hypogaea]
MGVFTFEDEITSTLPPAKLYNAMKDADSLTPKIIDVKSVEIVEGSGGPGTIKKLITIVED
GETRFILHKVEAIDEANYAYNYSVVGVALPPTAEKITFETKLVEGHNGGSTGKLSVKFH
SKGDAKPEEEDMKKGKAKGEALFKAIEGYVLNPTQY

>accession|ABH06346.1|Allergen Blo t 21 allergen [Blomia tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLLHITHEVDDLEKT
GNKDEKARPLRELVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLLKDLKA
LQKRVQDSE

>accession|ABH06348.1|Allergen Blo t 21 allergen [Blomia tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIINTATQRFHEIEKFLLHITHEVDDLEKT
GNKDEKARLLRELVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLLKDLKA
LQKRVQDSE

>accession|ABH06350.1|Allergen Blo t 21 allergen [Blomia tropicalis]
MKFIIALAALIAVACALPVSNDNFRHEFDHMIVNTATQRFHEIEKFLLHITHEVDDLEET
GNKDEKARLLRELVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLLKDLKA
LQKRVQDSE

>accession|ABH06352.1|Allergen Blo t 5 allergen [Blomia tropicalis]
MKFAIVLIACFAASVLAQGHKPKKDDFRNEFDHLLIEQANHAI EKGEHQLLYLQHQDEL
NENKSKELQEKI IRELDVVCAMIEGAQ GALERELKRTDLNILERFN YEEAQ TLSKILLKD
LKETE QKV KDIQTQ

>accession|ABH06359.1|Allergen Blo t 5 allergen [Blomia tropicalis]
MKFAIVLIACFAASVLAQEHKPEKDDFRNEFDHLLIEQANHAI EKGEHQLLYLQHQDEL
NENKSKELQEKI IRELDVVCAMIEGAQ GALERELKRTDLNILERFN YEEAQ TLSKILLKD
LKETE QKV KDIQTQ

>accession|ABH06347.1|Allergen Blo t 21 allergen [Blomia tropicalis]
MKFI IALAA LIAVACALPVSNDNFRHEFDHMIVNAATQRFHEIEKFL LHITHEVDDLEKT
GNKDEKARLLRELTVSEAFIEGSRGYFQRELKRTDLDLLEKFNFEAALATGDLLLKDLKA
LQKRVQDSE

>accession|ABI17154.1|Allergen iso-Ara h3 [Arachis hypogaea]
MAKLLALS LCF CVLVLGASSVTFRQGGEENECQFQRLNAQRPNRIESEGGYIETWNPNN
QEFQCAGVALSRTVLRNALRRPFYSNAPLEIYVQQGSYFGLIFPGCPSTYEEPAQEGR
RYQSQKPSRRFQVQDDPSQQQQDSHQKVHRFDEGDLIAVPTGVAFWVYND ETDVVTVT
LSDTSSIHNLQDQFPRRFYLAGNQEQEFLRYQQQGSRPHYRQISPRVRGDEQENEGSNI
FSGFAQEF LQHAFQVDRQTVENLRGENEEREQGAIVTVKGGLRILSPDEEDES SRSPPSR
REEFDEDRSRPQQRGKYDENRRGYKNGIEETICSASVKKNLGRSSNPDIYNPQAGSLRSV
NELDLPILGWLGLSAQHGTIYRNAMFVPHYTLNAHTIVVALNGRAHVQVVD SNGNRVYDE
ELQEGHVLVVPQNFVA AKAQSEN YEYLA FKTD SRPSIANLAGENSIIDNLPEEVVANSY
RLPREQARQLKNNNPFKFFVPPFDHQSMREVA

>accession|ABI26088.1|Putative TCTP [Alternaria alternata]
MLIYKDILTGEIISDSYNLKEIDGVVYEADCTKITVGGESFDTGANASAEQEEGAEDS
AETKIDVVYSFRLNETGFDDKGYLTYLKG YMKAVKDGLKKGGADEATIKDFETKASGYAK
KIISNFKDYEFFTGESMNPDGMIVLLNYREDGVTPYVTVWKHGLEEMKV

>accession|ABI32184.1|Putative allergenic protein [Fagopyrum tataricum]
MSTKLILSFLCLMLVLSCSAQAAQLWPWRKQDSRPHHGHQQFQQQCDIQRILTASEPSRR
VRSEAGVTEIWDHNTPEFRCTGFVAVRYVIQPGGLLLPSYSNAPYITFVEQGRGVQGVVI
PGCPETFQSDSEYPQSQRGQHSRESESQESSRGDQHQKIFRVREGDVIPSPAGVVQWTHN
DGDQDLISVTL LDANSFHNQLDENVRSFFLAGQSQQGREERSQQQTREEGGDRQSRES D
DVEALIGANILSGFQDEILHELFRDVDRETISKLRGENDQRGFIVQAQDLKLRVPEDSEE
GYERQRGDRKRDERGSGRSNGLEQAF CNLKF RQNVNRPSHADVFNPRAGRINTVNSNNLP
ILEFLQLSAQHVVLYKNAIIGPRWNLNAHSALYVTRGEGRVQVVGDEGKSVFDDNVQRGQ
ILVVPQGFVAVVKAGRQGLEWVELKNNDNAITSPIAGR TSVLRAIPVEVLANSYDISTEE
AYKLKNGRQEVEVFRPFQSRYEKEEKEKERERSIV

>accession|AAU21499.2|Putative oleosin 1 [Arachis hypogaea]
MTDRTQPHTVQVHTTAGRFGDTAAGTNRYPD RGPSTSKVIAVITGLPIGGTLLLFAGLAL
AGTLLGLAVTTPLFILFSPVIVPAIIVVGLSVAGFLTSGACGLTGLSSFSWVMNYIRQTH
GSVPEQLEM AKHRMADVAGYVGQKTKDVGQKTKEVGQEIQTKAQDSKRT

>accession|Q01883.2|Putative Seed allergenic protein RAG1 precursor (Seed
allergenic protein RA17) [Oryza sativa (japonica cultivar-group)]
MASNKVVFVSVLLLVLSVLAAAMATMADHHQVYSPGEQCRPGISYPTYSLPQCRTLVR RQ
CVGRGAASAADQVWQDCCRQLAAVDDGWCRGALDHMLSIGIYRELGATEAGHPMAEVFP
GCRRGDLERAAA SLPAFCNV D I PNGPGGV CYWLGYPRTPTRGH

>accession|Q01882.2|Putative Seed allergenic protein RAG2 precursor (Seed allergenic protein RA14) [Oryza sativa (japonica cultivar-group)]
MASNKVVFSAALLLIIVSVLAATATMADHHKDQVVVYSLGERCQPGMGYPMYSLPRCRAVVK
RQCVGHGAPGGAVDEQLRQDCRQLAAVDDSWCRCSALNHMVGGIYRELGATDVGHMPMAE
VFPGCRRGDLERAAASLPAFCNVDIPNGTGGVCYWLGYPRTPRTGH

>accession|NP_001041618.1|Allergen major allergen I, polypeptide chain 1 [Felis catus]
MLDAALPPCPTVAATADCEICPAVKRDVDLFLTGTPDEYVEQVAQYKALPVVLENARILK
NCVDAKMTEEDKENALSLLDKIYTSPLC

>accession|2HCZ_X|Putative Chain X, Crystal Structure Of Expb1 (Zea M 1), A Beta-Expansin And Group-1 Pollen Allergen From Maize [Zea mays]
GPPKVPPGXNITITNYNGKWLARATWYGQPNGAGAPDNGGACGIKVNLPYSGMTACGN
VPIFKDGKGCSCYEVRCKEKPECSGNPVTVYITDMNYEPIAPYHFDLSGKAFGSLAKPG
LNDKIRHCGIMDVEFRRVRCKYPAGQKIVFHIEKGCNPNYLAVLVKYVADDGDIVLMEIQ
DKLSAEWKPMKLSWGAIWMDTAKALKGPFISIRLTSESGKKVIAKDVIPANWRPDAVYTS
NVQFY

>accession|BAF32105.1|Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKEVHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNRNLWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDFFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIIIGSLGRENSRAEVSIVHVN
GAKFIDTQNGRLIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKEKSKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|BAF32110.1|Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKEVHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPQFTFKV
DGIIAAYQNPASWKNRNLWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDFFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIIIGSLGRENSRAEVSIVHVN
GAKFIDTQNGRLIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKEKSKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|BAF32116.1|Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRNRSRLRKEVHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVVNNLFFNGPCQPHFTFKV
DGIIAAYQNPASWKNRNLWLQFAKLTGFTLMGKGVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDFFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTNDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGIIIGSLGRENSRAEVSIVHVN
GAKFIDTQNGRLIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSKGKIASCLNDNANGYFS
GHVIPACKNLSPSAKRKEKSKSHKHPKTVMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMCSCHGKIYHP

>accession|BAF32119.1|Allergen pollen allergen [Cryptomeria japonica]
MAMKFIAPMAFVAMQLIIMAAAEDQSAQIMLDSDI EQYLRSNRSRLRKEVHSRHDAINIFN

VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGI IAAYQNPASWKNR IWLQFAKLTGFTLMGKGVIDGQKGQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDS PNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLR IKTWQGGSGMASHIIYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDINLSDISLKLTSGKIASCLNDNANGYFS
GNVIPACKNLS PAKRRESKSHKHPTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>accession|BAF32122.1|Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGS KKFVVNNLFFNGPCQPHFTFKV
DGI IAAYQNPASWKNR IWLQFAKLTGFTLMGKGVIDGQKGQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDS PNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLR IKTWQGGSGMASHIIYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLS D ISLKLTSGKIASCLNDNANGYFS
GNVIPACKNLS PAKRRESKSHKHPTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>accession|BAF32128.1|Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGS KKFVVNNLFFNGPCQPHFTFKV
DGI IAAYQNPASWKNR IWLQFAKLTGFTLMGKGVIDGQKGQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDS PNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGTENSRAEVS YVHVN
GAKFIDTQNGLR IKTWQGGSGMASHIIYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLS D ISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLS PAKRRESKSHKHPTVMVENMRA YDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWIC SCHGKIYHP

>accession|BAF32130.1|Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGI IAAYQNPASWKNR IWLQFAKLTGFTLMGKGVIDGQKGQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLIIQGLRLMNSPEFHLVFGNCEGVKIIIGISITAPRDS PNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLR IKTWQGGSGMASHIIYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLS D ISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLS PAKRRESKSHKHPTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>accession|BAF32133.1|Allergen pollen allergen [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLR SNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKKPSAMLLVPGNKKFVVNNLFFNGPCQPHFTFKV
DGI IAAYQNPASWKNR IWLQFAKLTGFTLMGKGVIDGQKGQWWAGQCKWVNGREICNDR
DRPTAIKFD FSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDS PNTDGIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVS YVHVN
GAKFIDTQNGLR IKTWQGGSGMASHIIYENVEMINSENPI LINQFYCTSASACQNQRSAV
QIQDVITYKNIRGTSATAAAIQLKCSDSMPCKDIKLS D ISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLS PAKRRESKSHKHPTVMVENMGAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWMC SCHGKIYHP

>accession|BAF32134.1|Allergen pollen allergen [Cryptomeria japonica]

MAMKLIAPMAFLAMQLIIMAAAEDQSAQIMLDSVVEKYLRSNRSLRKVEHSRHDAINIFN
VEKYGAVGDGKHDCTEAFSTAWQAACKNPSAMLLVPGSKKFVNNLFFNGPCQPHFTFKV
DGI IAAYQNPAWKNRNLWLQFAKLTGFTLMGKVIDGQKQWWAGQCKWVNGREICNDR
DRPTAIKFDFSTGLIIQGLKLMNSPEFHLVFGNCEGVKIIIGISITAPRDSPTDGDIDIFA
SKNFHLQKNTIGTGDDCVAIGTGSSNIVIEDLICGPGHGISIGSLGRENSRAEVSYVHVN
GAKFIDTQNGLRIKTWQGGSGMASHIIYENVEMINSENPIILINQFYCTSASACQNORS
SAVQIQDVTYKNIRGTSATAAAIQLKCSDSMPCKDIKLSDISLKLTSGKIASCLNDNANGYFS
GHVIPACKNLSNAPKRKESKSHKHPKTMVENMRAYDKGNRTRILLGSRPPNCTNKCHGC
SPCKAKLVIVHRIMPQEYYPQRWICSCHGKIYHP

>accession|BAF32143.1|Putative pollen allergen [Chamaecyparis obtusa]
LDSDIEQYLRNRSRSLKLVHSRHAATVFNVEQYGAAGVDGKHDSTEAFETAWNAACKKAS
AVLVVPANKKFFVNNLVFRGPCQPHLSFKVDGTIVAQPDPARWKNSKIWLQFAQLTDFNL
MGTGVIDGQGGQWWAGQCKVNVGRVTCNDRNRPTAIKIDYSKSVTVKELTLMNSPEFHLV
FGECEGVKIQGLKIKAPRDSPTDGDIDIFASKRFHIEKCVIGTGDDCIAIGTGSSNITIK
DLICGPGHGISIGSLGRDNSRAEVSHVHVNRAKFIDTQNGLRIKTWQGGSGGLASYITYEN
VEMINSENPIILINQFYCTSASACQNORS
SAVQIQGVTYKNIHGTSATAAAIQLMCSDSVPC
TGIQLSNVSLKLTSGKPASCVDKNARGFYSGRLIPTCKNLRPGPSPKEFELQQQPTVM

>accession|ABI98020.1|Putative arginine kinase [Litopenaeus vannamei]
MADAAVIEKLEAGFKKLEAATDCKSLLKYLTKEVFDKLDKRTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQTDKHPNKDFGDVNSFVNVDP
EGKFFV
ISTRVRCGRSLQGYFPNCLTESQYKEMEAKVSSLSLEGELKGTYYPLTGMSKEVQK
LIDDFLKFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGDLG
QVFRRLTSAVNEIEKRIPFSSHDLGFLTFCTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRMRGLTEFQAVKEMQDGILELIKIEKEM

>accession|Q1ZYQ8.2|Putative Expansin-B10 precursor (ZmEXPB10) (Beta-
expansin-10) (Pollen allergen Zea m 1c) [Zea mays]
MAVNVRTMWSSMRAQVAMVVALVFLVRGAWCGPPKVP
PGKNITATYGKDWLDAKATWYGK
PTGAGPDDNGGGCGYKDVNKPPFN
SMGACGNPIFKDGLGCGSCFEIKCDK
PVECSGKPV
VVHITDMNYEPIAAYHFDLAGTAF
GAMAKKGEELKRLKAGIIDMQFRRV
KCKYDSKVTFH
LEKGCNPYLALLVKYVDGDGDIVAVD
VKEKGSPTYEPLKHSWGAIWRKDS
DKPLKGPLT
VRLTTEGGTKSVYDDVIPANWKANTAYTAK

>accession|P0C1Y5.1|Putative Expansin-B11 precursor (ZmEXPB11) (Beta-
expansin-11) (Pollen allergen Zea m 1a) (Pollen allergen Zea m 1b) [Zea
mays]
MTVVSIMWSLVQVQLVAVALAFLVGGAWCGPPKVP
PGKNITAKYGS
DWLDAKATWYGK
P
TGAGPDDNGGGCGYKDVNKAPFN
SMGACGNVPIFKDGLGCGSCFEIKCDK
PAECSGKPV
VYITDMNYEPIAAYHFDLAGTAF
GAMAKKGEELKRLKAGIIDMQFRRV
KCKYDSKVTFH
LEKGCNPYLALLVKYVDGDGDIVAVD
IKEKGSPTYEPLKHSWGAIWRKDS
DKPIKGPITV
QLTTEGGTKTVYDDVIPAGWKPNTAYTAK

>accession|CAL59818.1|Allergen hyaluronidase [Vespula germanica]
SERPKRVFNIIYWNVPTFMCHQYDLYFDEVTNFN
IKRNSKDDFQGDKIAIFYDPGEFPALL
SLKDGYKKRNGGVPQEGNITIH
LQKFIE
NLDKTYPN
RNFSGIGVIDFERWRPIFRQNWG
NMKIHKNFSIDLVRNEHPTWNK
MIELEASKRFEKYARFFMEETL
KLAKKTRKQADWGY
Y
GYPYCFNMSPNLVP
ECDVTAMHENDKMSWLFNNQ
NVLLPSVYVRQELTPDQRI
GLVQGR
VKEAVRISNLLKHSPK
VLSYWWYVYQDETNTYL
TETDVKKTFQEIVINGD
GIIIWGSS
DVNSLSKCKRLQDYLLTVL
GPIAVNVTEAVN

>accession|CAL59819.1|Allergen hyaluronidase homologue [Vespula
germanica]

VITIWPKKGFISIYWNIPTHFCHNFGVYFKELKQFNIKYNSMNNFRGETISLFYDPGNFPS
MVLKNGTYEIRNEGVPQKGNLTIHLEQFTKELDEIYPKKIAGGIGVIHFNWRPIFRN
VDNLKINKDISIDLVRKEHPKWDKSMIEKEASNRFETS AKIFMEKTLKLAKEIRKKTEWG
YHGYPHCLSGSTDKPSFDCDALSMSSENDKMSWLFNNQNVLLPSIYLNVLKLPDEKIHVLVQ
ERLKEAIRISKNLKHLPKVLPYWWYTYQDKESIFLTEADVKNTFKEILTNGADGIIWGV
SYELTDRKRCEKLKEYLMKILGP

>accession|ABK78766.1|Allergen major allergen Cup a 1 [Cupressus
arizonica]

SDNPIDSCWRGDSNWDQNRMKLADCVVGFSGSSTMGGKGEIYTVTSSDNPNVPTPGTLR
YGATREKALWIIIFSQNMNIKLQMPLYVNGYKTIDGRGADVHLGNGGPCLFMRKASHVILH
GLHIHGCNTSVLGDVLVSESIGVEPVHAQDGAITMRNVTNAWIDHNSLSDCSDGLIDVT
LGSTGITISNNHFFNHKVMLLGHDDTYDDDKSMKVTVAFNQFGPNAGQRMPRARYGLVH
VANNYDQWNIYAIGSSNPTILSEGNSFTAPNESYKKEVTKRIGCETTSACANWVWRST
RDAFTNGAYFVSSGKAEDTNIYNSNEAFKVENGNAAPQLTQAGVVA

>accession|P00791.3|Putative RecName: Full=Pepsin A; Flags: Precursor
[Sus scrofa]

MKWLLLLSLVVLSECLVKVPLVRKKSRLRQNLIKNGKLDKDFLTKHKNPASKYFPEAAALI
GDEPLENYLDTEYFGTIGITPAQDFTVIFDTGSSNLWVPSVYCSSLACSDHNQFNPDDS
STFEATSQELSITYGTGSMTGILGYDTVQVGGISDTNQIFGLSETEPGSFLLYAPFDGIL
GLAYPSISASGATPVFDNLWDQGLVSDQLFSVYLSNDDSGSVLLGGIDSSYYTGLSNW
VPVSVEGYWQITLDSITMDGETIACSGGCQAIIVDTGTSLLTGPTSAIANIQSDIGASENS
DGEMVISCSSIDSLPDIVFTINGVQYPLSPSAYILQDDDSCTSGFEGMDVPTSSGELWIL
GDVFIQYYTVFDRANNKVGLAPVA

>accession|P0C0Y4.2|Allergen Probable NADP-dependent mannitol
dehydrogenase (MtDH) (Mannitol 2-dehydrogenase [NADP+]) (Allergen Alt a
8) [Alternaria alternata]

MPISVPQATELKDLSLKGKVVIVTGASGPTGIGTEAARGCAEYGADLAITYNSRAEGAE
KNAKEMSEKYGVKVKAYKQVNEYAQCEKLVQDVIKDFGKVDVFIANAGKTADNGILDAT
VEQWNEVIQTDLTGTFNCARAVGLHFREKRTGSLVITSSMSGHIANFPQEASYNVAKAG
CIHLAKSLANEWRDFARVNSISPGYIDTGLSDFVPQDIQKLWHSMPMGRDAKATELKG
VYFASDASSYCTGSDLLIDGGYCVR

>accession|ABL09307.1|Putative allergen Aca s 13 [Acarus siro]
MVQINGSYKLEKSDNFDAFLKELGLNFVTRNLAKSATPTVEVSVNGDSYTIKTASTLKNT
EISFKLGEFEFEARADGKTVKTVVNKESDTKFKVQVQGDKEVTIVREFSDEGLTVTATVN
GVTSVRFYKRQ

>accession|ABL09312.1|Putative allergen Aca s 4 [Acarus siro]
MAHLLLAVVAITLALSQSVFSGSPYSNPHTGSRSVITHLMQWKFDIAAECERFLGPKG
YGGIQLSPVNEHAVLGNRPWYELYQPVGKYIQRSGNEEQFKGMVQRCNKVGVRIYVDIV
MNHMSGAQEGHNCWFKLQWHHDVSRCSLLVPNDFHGRESCHTDNMDIKNYDNPEEARN
RLSGLRDLKQSSEYVRQKQADFLNHLIDLGVAGSRSDASKHMWPGDLEAIYGKLNHLNTA
YFPANSRPFYIHEVIYGGDGKSSDYTKLGRAIEFHFYRDIANVRRHNQLKTVKNFGQ
PWGMVPSDDALVMVDSHDLQRFHTGQVGNINIFYESRLLKVATAFMLAWPYGVPRVMSSY
HWDQKIEDGKDKNDWIGPPSDGSGNILSVTPQPDTCNKEWICEHRWRQIYNMVHFRNVA
GNEAVSHWWDNGDYQIAFGRGSKAFIAINLQDQGLNRKLATGLPQGTYCDLVTGNLAGG
KCTGGTVTVDGSGNADINIAKTAEDPFVAIHVEAKLH

>accession|ABL77410.1|Putative UA3-recognized allergen [Anisakis
simplex]

AKYGSQFCKNLLANCLSSSTGATLPMQSPWQIPPVVSSCITSGMAKGTDHKKDVMATCIQ

RYGADFCKNMVGSAAALTDVTLTSTYGGIGSVLPQVIVDCMTSEMSSPSIMWQCVQKYGTEF
CKKLLQDCSASTGASLSPQAPWLI PSVIAECMAKGMVNGGRQADDTMAICIQKYGIKFCN
IIGAACSVLTQVPPFPQLPGTVQQLPSELRACVRSETQKPNVMTKCVKEYGTEFCSSLLQ
SCSASTGAILPLREPWKIPHP IADCMYAGMNPESKEDRGGIMSKCIRRYGDFDFCKKMLES
CSALTSVQHDSRNTNYASLPQVLKDCMASEMDSVSMFECVQRYGTFPCKGLLETCTEKT
RASLSPQAPWLIPTAIAQCMRQGMNQDEKKTLMSLCVRRYGADYCNNLAAACSVLTNLP
FFPQTPPSEQNLPPMMHKCLKSEMENPGIMSTCVQRYGTQFCKNLLNSCTASTGMHLPYD
APWKIPEPIAACMAQGMNGGDHKPKEDAMARCIRKYGVTYCNNMLASC SVLTNVNYDPSG
GQMPGILSECVTAE TDEP SAMCQCVQKYGTEFCKKRLASCIAS TGMNLPATTPWKLPPP
V ARCMQHGS PNDNRGQOGSNDVMSQCIARYGAEFCQRLARFCYAMNSLQYPGETFDPQQQ
TPTQVARCMKSEMDSP SVMWHCVQKYGQEFCKNLAATCSTETNTPLPQQDPWRLPQPIIA
CMLGKMNNPNPTSKPQSVMSQCTARYGDDFCLSLGKACAELNNVPSSMISLSAQQLPQPV
SSCMKAEMNNPSALWQCIQQYGI EFCKKLRDACSAMTGASLSTTTPWILPQPVSNCMRNE
MNNPSAMWLCIQKYGIEFCNRLASACAMIKKVTMPTVTINLPEIIASCVASENSQAMCYA
RKGPEQCKTEENICRNPNP PGSP LTI PETECMKSQVAMATCQKFGSECVALQQECVAG
TGAPPVTIGARGAFMLATALRSCIFNGGVIGSCVLYHPPSQCDQWVQCCATALQTSAGVT
VAGGYRQLSPPMAVCVASQDLMTRCMTLRLGQGTCCQAVKNCKRRFNTPSSRLPGRLLWSLS
SELINCLYRPVNRASN

>accession|ABL84749.1|Allergen Der f 1 allergen [Dermatophagoides
farinae]

MKFVLAIASLLVLTSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES LKYEAN
KGAINHLSLDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPS ELDLRSLRT
ATPIRMQGGCGS CWA FSGVAATESAYLAYRNTSLDLSEQLVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGR TII QHDNGYQPNYHAVNIVGYGSTQGV DYWIVRNSWDTTWGD SGY
GYFQAGNNLMMIEQYPYVIM

>accession|ABL84750.1|Allergen Der f 1 allergen [Dermatophagoides
farinae]

MKFVLAIASLLVLTSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES LKYEAN
KGAINHLSLDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPS ELDLRSLRT
VTPIRMQGGCGS CWA FSGVAATESAYLAYRNTSLDLSEQLVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGR TII QHDNGYQPNYHAVNIVGYGSTQGV DYWIVRNSWDTTWGD SGY
GYFQAGNNLMMIEQYPYVIM

>accession|ABL84751.1|Allergen Der f 1 allergen [Dermatophagoides
farinae]

MKFVLAIASLLVLTSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES LKYEAN
KGAINHLSLDSLDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPS ELDLRSLRT
VTPIRMQGGCGS CWA FSGVAATESAYLAYRNTSLDLSEQLVDCASQHGCHGDTIPRGIE
YIQQNGVVEERSYPYVAREQQCRRPNSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGR TII RHDNGYQPNYHAVNIVGYGSTQGV DYWIVRNSWDTTWGD SGY
GYFQAGNNLMMIEQYPYVIM

>accession|ABL89183.1|Putative allergen tropomyosin [Portunus
sanguinolentus]

MDAIKKMQAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSLSD EERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRL EDELVNEKEKYKSITDEL DQTFSELSGY

>accession|ABM53030.1|Putative profilin [Caryota mitis]
MSWQAYVDHHLMCEIDGQRLAAAAILGHDGSVWAQSETFPQVKPEEISGIMNDFAEFGNL
APTGLYLGN TKYMVIQGEFPAVIRGKKGSGGVTIKKTNMALIIGIYDEPMTPGQCNMIIE
RLGDYLIDQGF

>accession|ABM53751.1|Putative mite allergen Tyr p 13 [Tyrophagus
putrescentiae]
MTIEGKYKLEKSENFDAFLDKLGVGFMVKTAAKTLKPTLEVEVAGDITYTLRSLSTFKNTE
IKFKLGEEFEEDRADGKKVKTVVNKEGDNKLVQTQFGDKVKKIREFNGDDVVVTASVDG
VTSVRSYKRI

>accession|BAF43534.1|Putative SXP/RAL-2 family protein [Anisakis
simplex]
MKT LIVAAALFCTIGMALADDTPPPPFFLAGAPQDVVKAFFELLKKDETCTDPEIEKDLDA
WVDTLGGDYKAKFETFKKEMKAKEAELAKAHEEAVAKMTPEAKKADAELS KIAEDDSLNG
IQAQKIQA IYKTL PQSVKDELEKGIGPAV PQ

>accession|ABM60783.1|Putative pectate lyase [Penicillium citrinum]
VGDVATGYASENGGTTGGSGGTTTTVSSYAAFTEAVSGDDAKVVFVSGKISK TADQARV G
SNTSIIIGKDSNAILSGFGVLVKEASNVIIRNLGVEKVLADNGDAIGIQKSNNVWVDHCDV
SSDRDHDKDYDGLIDITHAADYVTVSNTSIHDHWKACLIGHSDSNGDEDKGH LHVTLNN
NYWYNINSRGPSFRFGTGHVYNSYLDMSDGINTRQGAQH LVESNTFSGSKKPLYSTDDG
YAVANDNDFGDGENNAEKGTLSV PYSYDLVSGSKVKDAVVG TAGQTLTF

>accession|P80740.2|Putative Superoxide dismutase [Cu-Zn] (Allergen Ole e
5) (Ole e V) [Olea europaea]
MVKAVTVLNSSEGP HGIVYFAQEGDGPTTV

>accession|P82977.2|Putative RecName: Full=Subtilisin-chymotrypsin
inhibitor WSCI; Flags: Precursor [Triticum aestivum]
MSSVVKKPLGGNTDTGDHNNQKTEWPELVGKSVEEAKKVILQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLDKIAQVPRVG

>accession|Q45W86|Putative Oleosin 2 [Arachis hypogaea]
MAEALYYGGRQRQDQPRSTQLVKATTAVVAGGSL LILAGLVLAATVIGLTTITPLFVIFS
PVLVPAVITVALLGLGFLASGGFGVAAITVLTWIIYRYVTGKHPPGANQLD TARHKLMSKA
REIKDYGQQQTSGA QAS

>accession|BAF45320.1|Allergen allergen Cry j 2 [Cryptomeria japonica]
MAMKLIAPMAFLAMQLIIMAAEDQSAQIMLDSVVEKYLRSNRS LRRVEHSRHDAINIFN
VEKYG

>accession|ABN03965.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGV CYGMQGNNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNP SNANSWVQKNVRGFWSSV
RFRYIAVGNIEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVST AIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYADNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEV VVSESGWPSAGAF AATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKR PKYNLNF GAENKNDIS
TEHDATILFLKSDM

>accession|ABN03966.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLFFFTASV GITDAQVGV CYGMQGNNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNP SNAKSWVQKNVRGFWSSV

RFRYIAVGNEISPVNRTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVRNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVVSESGWPSAGAFAAATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYLFAMFDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>accession|ABN09653.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFITASIGITDAQVGVGYGMQGNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPNSANSWVQKNVRGFWSSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLTNIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVVSESGWPSAGAFAAATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFATFDENKKQPEVEKHFGLFFPDKRPHYNLNFGAEKNWDIS
TEHNATILFLKSDM

>accession|ABN09654.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFITASLGITDAQVGVGYGMQGNLPSVSEVIALYK
KSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPNSANSWVQKNVRGFWSSV
RFRYIAVGNEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSXSPLLANIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVVSESGWPSAGAFAAATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKRPHYNLNFGAEKNWDIS
TEHNATILFLKSDM

>accession|ABN09655.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVMLLLIFFITASVGITDAQVGVGYGMQGNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPNSAKSWVQKNVRGFWSSV
RFRYIAVGNEISPVNRTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLVGNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLVVVSESGWPSAGAFAAATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYLFAMFDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>accession|ABN14313.1|Allergen Der f 2 allergen [Dermatophagoides
farinae]
MISKILCLSLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPFITLEALFDA
NQNTKTAKIEIKANINGLEVDVPGIDTNACHYIKCPLVKGQQYDAKYTWNVPKIAPKSEN
VVVTVKLIGDNGVLACAIATHGKIRD

>accession|BAF46896.1|Putative tropomyosin [Balanus rostratus]
MDAIKKKMAMKLEKENALDKAEQLEQKLRDVEETKAKAEEDLTLQKKYTNLENEFDQV
NEQYNEGVTKLEVSEKRVTEAEDEIKGYTRRIQLLEDDLERTPVKLDEATFKLEDATKTA
DESERGRKVLESRSIADDDRIDALEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERSE
TRLEAAEAKITELSEELAVVGNNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLLEDELLAEKEKYKAISDELDTQTFAEELAGM

>accession|P08819.2|Putative RecName: Full=Serine carboxypeptidase 2;
AltName: Full=Serine carboxypeptidase II; AltName: Full=Carboxypeptidase
D; AltName: Full=CPDW-II; Short=CP-WII; Contains: RecName: Full=Serine
carboxypeptidase 2 chain A; AltName: Full=Serine carboxypeptidase II c
[Triticum aestivum]
VEPSGHAADRIARLPQPAVDFDMYSGYITVDEGAGRSLFYLLQEAPEDAQPAPLVLWLN
GGPGCSSVAYGASEELGAFRVKPRGAGLVLNEYRWNKVANVLFLDSPAGVGFSTNTSSD
IYTSGDNRTAHDSYAFLAKWFERFPHYKYRDFYIAGESYAGHYVPELSQLVHRSKNPVIN

LKGFVGNGLIDDYHDYVGTFFFWNHNHGISSDDTYRRLKEACLHDSFIHPSACDAATDV
ATAEQGNIDMYSLYTPVCNITSSSSSSSSSSLSQRRSRGRYPWLTGSYDPCTERYSTAYY
NRRDVQMALHANVTGAMNYTWATCSDTINTHWHHDAPRSMLPIYRELIAAGLRIWVFSGDT
DAVPLTATRYSIGALGLPTTTSWYPWYDDQEVGGWSQVYKGLTLVSVRGAGHEVPLHRP
RQALVLFQYFLQKPMGQTKNAT

>accession|BAF47263.1|Putative tropomyosin fast isoform [Marsupinaeus japonicus]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|BAF47265.1|Putative tropomyosin fast isoform [Paralithodes camtschaticus]

MDAIKKKMQAMKLEKDNAMDKADTLEQQNKEANNRAEKAEVHGLQKRMQQLENDLDQV
QESLLKANTQLEDKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|BAF47266.1|Putative tropomyosin slow-tonic isoform [Paralithodes camtschaticus]

MDAIKKKMQAMKLEKDNAMDKADTLEQQNKEANNRAEKTEEEIRLTQKKMQQVENELDVA
QEQLSLANTKLEEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKNIADEMDQAFSELSGF

>accession|BAF47268.1|Putative tropomyosin slow-twitch isoform [Erimacrus isenbeckii]

MDAIKKKMQAMKLEKDNAMDRAHTLEQQNKEANLRAEKTEEEIRATQKKMQQIENELDHA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|BAF47269.1|Putative tropomyosin slow-tonic isoform [Erimacrus isenbeckii]

MDAIKKKMQAMKLEKDNAMDRAHTLEQQNKEANLRAEKTEEEIRATQKKMQQIENELDHA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKNIADEMDQAFSELSGF

>accession|AAM09530.3|Putative latherin [Equus caballus]

MLKVSCLFVLLCGLLVPSSAQQIPPEVSSQITDALTOGLLDGNFLSLLNAINLEGLLNTI
LDQVTGLLNILVGPLLGPDAEIKLQDTRLLQLSLEFSPDSKGIDIWIPLSVYKLLLI
LEPLTLYVRTDIRVQLRLESEDEGKYRLAFGHCSLLPRAIELQSGNPLSLPVNAVLGTIE
NALGNFITEDLGAGLCPTLNSLVSNLDLQLVNNLINLILDRANVDLSV

>accession|AB036677.1|Putative vicilin [Pistacia vera]

KTDPELKQCKHQCKVQRQYDEEQEQCAKGCEKYYKEKKGREQEEEEEEWGSGRGRGDE

FSTHEPGEKRLSQCMKQCERQDGGQQKQLCRFRQCQEKYKKERREHSYSRDEEEEEEGDEE
QEEEDENPYVFEDEHFTTRVKTEQGKVVVLPKFTKRSKLLRGLEKYRLAFLVANPQAFVV
PNHMDADSIFFVSWGRGTITKIRENKRESMNVKQGDIIIRIRAGTPFYIVNTDENEKLYIV
KLLQPVNLPGHYEVFHGPGGENPESFYRAFSREVLEAALKTPRDKLEKLFQDEGAIVK
ASKEQIRAMSRREGGPSIWPFTGKSTGTFNLFKKDPSQSNNYGQLFESEFKDYPPLOELD
IMVSYVNITKGGMSGPFYNSRATKIAIVVSGEGRLEIACPHLSSSKNSGQEKSGPSYKLL
SSSIRTDSVFFVPAGHPFVTVASGNQNLIELCFEVNAEGNIRYTLAGKKNIIIEVMEKEAK
ELAFKTKGEEVDKVFQKQDEEFFQGPQKWRQHQQGRADE

>accession|CAM54066.1|Allergen cell wall protein PhiA [Aspergillus
fumigatus]

MQIKSFVLAASAAATASAAACQAPTNYKYGIVAIHSGSAVQYQPFSAAKSSIFAGLNSQN
ASCDRPDEKSATFYIQDGLSLYLAASATPQEIFVDRSGMGQKIGYTTGAQPAPRNSERQ
GWAIDSQNHLQFQGKDLIACPN SIDGAWSIWADAGVANPAGNTDCVGIARVEDVTNPNS
CVYTQ

>accession|AB071783.1|Putative tropomyosin [Eriocheir sinensis]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|BAF51970.1|Allergen thaumatin-like protein [Cryptomeria
japonica]

MAKVSDLALLLVAGMAISLYIQETGAVKFDIKNQCGYTVWAAGLPGGGQQLTQGQTWTVN
LAAGTQSARFWGRTGCSFDASGKGTCTGDCGGQLSCTVSGAVPATLAEYTSQSDQDYD
SLVDGFNIPLSINPTNAQCTAPACKADVNAVCPAELKVDGGCKSACAAFQTDQYCCTGT
YANSCPATNYSMIFKNQCPQAYSYPKDDTATFACPSGTDYSIVFCP

>accession|AB084963.1|Putative group 21 allergen [Dermatophagoides
farinae]

MKFIIIFCAIVMAVSVSGFIVDVEDKWRNAFDRMLMEEFGEKIDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|AB084964.1|Putative group 21 allergen [Dermatophagoides
farinae]

MKFIIIFCAIVMAVSVSGFIVDVEDKWRNAFDRMLMEEFEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|AB084966.1|Putative group 21 allergen [Dermatophagoides
farinae]

MKFIIIFCAIVMAVSVSGFIVDVEDKWRNAFDRMLMEEFEKIDQIEHGLLMLSEQYKE
SEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|AB084967.1|Putative group 21 allergen [Dermatophagoides
farinae]

MKFIIIFCAIVMAVSVSGFIVDVEDKWRNAFDRMLMEEFEKIDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|ABO84968.1|Putative group 21 allergen [Dermatophagoides farinae]
MKFIIIFCAIVMAVSVSGFIVDVEDKWRNAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVPTIEILVK
DLAELAKKVKAVKSDD

>accession|ABO84969.1|Putative group 21 allergen [Dermatophagoides farinae]
MKFIIIFCAIVMAVSVSGFIVDVEDKWRGAFDRMLMEEFEEKMDQIEHGLLMLSEQYKE
LEKTKSKELKEQILRELTIAENYLRGALKFMQQEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|ABO93594.1|Putative BW10KD allergen protein [Fagopyrum tataricum]
MKLFLILAAASLLIVASHADSQMRSKCRKQMRMMEPQLEQCEGYMTMDMMDADSMRGQEC
RSEESCMRGCCMAMKEMDDECMCEWMMKMMVQQQRGEMGEEDMRMVMRKMQLPNKCGMGH
MRCHMGMGTRVYE

>accession|ABP04043.1|Allergen Bla g 4 allergen [Blattella germanica]
AVLALCASDTLAMEDCFRHESLVPLNDYERFRGSWIIAAGTSEALTQYKWCIDRFSYDDA
LYSLYTDSKGNKTAIRGRTKFEGNKFTIDYNDKGFSAFYSVLATDYDNYAIVEGCPA
AANGHVIYVQLRLTWRRFHPKLGDKEMIQHHTLDQVNVQHKKAI EEDLKHFNLKYEDLHST
CH

>accession|ABP04044.1|Allergen Bla g 5 variant allergen [Blattella germanica]
YKLTYPVKALGEPPIRFLLSYGEKDFEDYRFQEGDWPCLKPSMPFGKTPVLEIDGKQTHQ
SVAISRYLGKQFGLSGKDDWENLEIDMIVDTISDFRAAIANYHYDADENSKQKKWDPLKK
ETIPYYTKKFDEVVKANGGYLAAGKLTWADFYFVAILDYLNHMAKEDLVANQP NLKALRE
KVLGLPAIKAWVAKRPPTDL

>accession|ABP35603.1|Allergen Bla g 2 allergen variant [Blattella germanica]
MIGLKIVTVLFAVATITHAAELQRVPLYKLVHVFINTQYAGITKIGNQNFLT VFDSTSCN
VVVASQECVGGACVCPNLQKYEKLPRIYISDGNVQVKFFDTGSAVGRGIEDSLTIFNLTT
SQQDIVLADELSQEVCSILSADGVVGIAPGCPNALKGKTVLENFVEENLIAPVFSIHHAR
FQDGEHFGEIIFGGSWKYVDGEFTYVPLVGDSDWKFRDLGVKIGDTTVAPAGTQAIIDT
SKAIIIVGPKAYVNPINEAIGCVVEKTTTRICKLDCSKIPSLPDVTFVINGRNFNISSQY
YIQQNGNLCYSQPCGHSDFHFFIGDFFVDHYSEFNWENKAMGFGRSVESV

>accession|ABP58627.1|Putative pollen allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNSGLKPLGHGFHVHALGDTTNGCMSTG
PHFNPVKGHEGTPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABP58632.1|Allergen major pollen allergen Ole e 1 [Olea europaea]
PPVSQFHIQGGIYCDTCRSRIFITELSEFIPGASVRLQCREKNGDITFTEIGYTRAEGLY
SMLVERDHKNEFCEITLISSGRKDCDEIPIEGWAKPSLKFILNTVNGTTRTVNPLGFFKK
EALPKCAQVYNKLGMYPPNM

>accession|ABP58633.1|Allergen major pollen allergen Ole e 1 [Olea europaea]
PPVSQFHIQGGVYCDTCRAGFITELSEFIPGASVRLQCREKNGDITFTEVGYTRAEGLY

SMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTINPLGFYKK
EALPKCAQVYNKLDMYPPNM

>accession|ABP58635.1|Allergen major pollen allergen Ole e 1 [Olea
europaea] [Olea europaea]
PPVSQFHIQGQVYCDTCRARFITELSEFIPGASVRLQCRDGENGSIFFTEVGSSTRAEGLY
SMLIERDHKDEFCEITLISSSRKDCDEIPVEGWVKPSLKFMLNTVNGTTRTVNPLGFFFK
EALPKCPQVFNKLGMYPPDM

>accession|ABP58636.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
PPVSQFHIQGQVYCDTCRAGFITELSEFIPGASVRLQCREKKNGDITFFTEVGYTRAEGLY
SMLVERDHKNEFCEITLISSGRKDCNEIPTEGWAKPSLKFILNTVNGTTRTINPLGFYKK
EALPKCAQVYNKLGMYPPNM

>accession|ABP58637.1|Allergen major pollen allergen Ole e 1 [Olea
europaea]
PPVSQFHVQGOIYCDTCRAGFIAELSEFILGAGVRLQCRDSKKNITFFTEVGYTRAEGLY
SMLIERDHKNEFCEVNSLSSSRKDCDEIPIEGWVRPSLRFLNNTVNGTTCTIKPLGFFKN
KALPKCPQVFNKLGMYPPDL

>accession|P80273.2|Putative Nonspecific lipid-transfer protein P3 (LTP
P3) [Vitis sp.]
LSCGDVATQMASCINYLRGAGPLPAACCVGKLNKNSATTTQDRRTACKCLISASKTISG
VNFGLAAGLPAKCGVSIPIYKISPSTNCDQVN

>accession|ABP97433.1|Allergen Ara h 8 allergen isoform [Arachis
hypogaea]
MGVHTFEEESTSPVPPAKLKFATVVDGDELTPKLIQAIQSIEIVEGNNGPGTVKKVTAVE
DGKTSYVLHKIDAIDEATYTYDYTISGGTGFQEIILEKVSFVKTKLEAADGGSKIKVSVTFH
TKGDAPLPDEVHQDVKQKSQGFKAIEGYVLSN

>accession|ABQ10638.1|Putative vicilin-like protein [Fagopyrum
esculentum]
GDYPFEPRRQIEHCRQRCQDRSQGFRETRECLETCEKRAFDDDEPSKEVDSYTTDTRSRD
PQQEFRQCRHRCQTQEEGGRQQRKCEQRCEQLERQQGYDDEEFGQGRSNIGAPVRNYDD
CTEMCGGSPLCALFCE

>accession|ABQ42566.1|Allergen thaumatin-like protein [Actinidia
deliciosa]
ATFNIINNCPFTVWAAAVPGGGKRLDRGQNWIIINPSAGTKGARVWPRTGCNFDGAGRKC
QTGDCNGLLQCAFGQPNTLAEYALNQFNLDFFDISLVDGFNVAMEFSPTS GGCTRGI
KCTADINGQCPNELRAPGGCNPCTVFKTDQFCCNSGNCGLTNFSKFFKDRCPDAYSYPK
DDQTSTFTCPAGTNYKVVFVCP

>accession|CAM56785.1|Allergen parvalbumin beta [Gadus morhua]
MAFAGILADADCAA AVKACEAAESFSYKAFFAKCGLSGKSADDIKKAFFVIDQDKSGFIE
EDELKLFQVFKAGARAL TDAETKAFKAGDSDGDGAIGVEEWAVLVKA

>accession|CAM56786.1|Allergen parvalbumin beta [Gadus morhua]
MAFAGILNDADITAALAACKAEGSFDHKAFFTKVGLAAKSSADIKKVFEI IDQDKSDFVE
EDELKLFQNF SAGARALS DAETKVFLKAGDSDGDGKIGVDEFGAMIKA

>accession|ABQ59329.1|Putative vacuolar serine protease [Cladosporium cladosporioides]

DQEVHVLKSESEVEKNAPWGLARISHRDSLSFGTFNKLYTEDGGEGVDVYVVDVTGTNVD
HVFDEGRASWGKTIPOGDADEDGNGHGTHCSGTVAGKKYGVAKKAHVKAVKVLRSNGSGS
MSDVVKGVEYAAESHLEQVSIAKKGRKGFKGSTANMSLGGGKSPILDKAVNAAVDAGIH
FAVAAGNDNADSCNYSAAAENAVTVGASTLSDERAYFSNYGKCNDIFAPGLNIQSTWIG
SKYAVNTISGTSMASPHVAGLLAYLLSLQPAKDSAFAVADISPKKLANLISIATVGALT
DVPSNTANILAWNGGGSNYSATIVEKGGYKAAVRPTMLEEIESEAKVASKKVYSEGDELA
KKVAELTEKIEDLISGDLKDMFRDLKRE

>accession|ABQ96644.1|Putative tropomyosin [Tyrophagus putrescentiae]

MEAIKKKMQAMKLEKDNAIDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLGNDLDQV
QESLLKANIQLVEKDRALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELTGY

>accession|CAK50834.1|Putative art v 2 allergen [Artemisia vulgaris]

MHGLGNFWLVLAI SFAILHLSHAHETYGEPGNT PDDYVHAHNCIRRVLGMKPLCWDEIGK
VAQAWAETRTPDCSLIHSDRCGENMAQGAINGSMVQLWLDERLDYDYNENKCIKMCQGHY
TQIVWANSERVGCGRALCSNGWAYIIVCNYDPPGNVVGQKPY

>accession|ABR21771.1|Putative conglutin beta [Lupinus angustifolius]

EERQEEERERRRREPCCREEREQEQQPQHGRREEEEEEEEWQPRRLRPQSRKEEREQEQQSSS
SSRKQSGYERRQYHERREQRDEKEKEQDSRSDSRRQRNPYHFSSERFQTRYRNRNGQIRV
LERFDQRTNRLLENLQNYRIVEFQSNPNTLILPKHSDADYILVVLNGRATITIVNPKRQA
YNLEYGDALRLPAGTTSYILNPDNDQNLRVVLAIPINNP SNFYDFYPSSTKDQQSYFSG
FSKNTLEATFNTRYEEIQRILLGNEDEQEDEEQRRGQEQQSYQDEGVIVRVSKEQIQELRK
HAQSSSRKKGKPSSESGPFNLR SNESIYSNKFGNFYEITPERNPQVQDLDISLTFTEINEGA
LLLPHYNSKAIFIVVVEGEGNYELVGIRDQQRQQDEQE EEEEEVRRYSARLSEGDIFVI
PAGYPI SVNASSNLRLLGFGINANENQRNFLAGSEDNVISQLDREVKELTFPGSAQDVER
LIKNOQQSYFANAQPQQKQREKEGRRRSLISSILSTLY

>accession|ABR21772.1|Putative conglutin beta [Lupinus angustifolius]

MAKMRVRLPMLILLGLVVFLLAASIGIAYGEKDFTKNPPKERE EEEEEHEPRQQPRPQQEE
QEREHRREEKHDEGPEPSRGRSQSEESQEEEHERRREHHREREQEQQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQQSSSGSQRGSGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYRNRNGQIRVLERFNQRTNRLLENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPKRQVYNLEQGDALRLPAGTTSYILNPDNDQNLRVAKLA
IPINNPGLYDFYPSSTKDQQSYFSGFSKNTLEATFNTRYEEIERVLLGDDELQENKQR
RGQEQQSHQDEGVIVRVSQKQIQELRKHAQSSSGEGKPSSESGPFNLR SNKPIYSNKFGNFY
EITPDINPQFQDLNISLTFTEINELWLTKEKEIMN

>accession|ABR29644.1|Putative manganese superoxide dismutase-like protein [Pistacia vera]

MALLSYVTRKTLTESLRLGLKSHVRGLQTFPLDLPYEGALEPAISSEIMQLHHQKHHQ
TYITNYNKALEQLDQAINKGDASAVVKLQSAIKFNGGGHINHSIFWKNLTPVSEGGGEP
HGSLGWAIDTNFGSMEALIQRMNAEGAALQSGWVWLGLDKESKLLVETTANQDPLVTK
GPSLVPLLGIDVWEHAYYLQYKNVRPDYLNKNIWKVINWKYAGELYQKECP

>accession|ABS12233.1|Putative tropomyosin [Scylla serrata]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANLRAEKTEEEIRATQKKMQQVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE

ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>accession|ABS12234.1|Putative tropomyosin [Portunus trituberculatus]
MDAIKKKMQAMKLEKDNAMDRANTLEQQNKEANLRAEKTEEEIRATQKKMQOVENELDQA
QEQLSAANTKLDEKEKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDQTFSELSGY

>accession|ABS29033.1|Putative Alt a 1 major allergen [Stemphylium sp.
CID1012]
LAAAAPFEARQADASCPVSTQGDYVWKISEFSGRKPEGTYYNLSFNKATNKGTLDFTC
SAQADKLEDDKFYSCGENSFMSFAFQSDRNLFRQDVSEITYVATATLPNYCHAGNG
PKDFVCQGVSDAYFTLV

>accession|ABS58503.1|Putative serine proteinase inhibitor-like allergen
[Triticum aestivum]
MSPVVKKPEGGNTDTGDHNNQKTEWPELVGKSVEEAKKVMQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLKIAQVPRVG

>accession|BAF75681.1|Putative SXP/RAL-2 family protein 2 isoform 1
[Anisakis simplex]
MKVLFVVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQQS

>accession|BAF75704.1|Putative SXP/RAL-2 family protein 2 isoform 2
[Anisakis simplex]
MRVLFVVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQQS

>accession|BAF75705.1|Putative SXP/RAL-2 family protein 2 isoform 3
[Anisakis simplex]
MKVLFVVAAVVADSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQATEEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQQS

>accession|BAF75706.1|Putative SXP/RAL-2 family protein 2 isoform 4
[Anisakis simplex]
MKVLFVVAAVVAVPLAQDQGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQQS

>accession|BAF75707.1|Putative SXP/RAL-2 family protein 2 isoform 5
[Anisakis simplex]
MKVLFVVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAYAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQQS

>accession|BAF75708.1|Putative SXP/RAL-2 family protein 2 isoform 6
[Anisakis simplex]
MKVLFVVAAVVAVSLAQDQGPPPLPKFLDGADQATKDAFAALAQTFRDDTDKQVEDAVQQ

FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75709.1|Putative SXP/RAL-2 family protein 2 isoform 7
[Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FANDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTATADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75710.1|Putative SXP/RAL-2 family protein 2 isoform 8
[Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNNHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75711.1|Putative SXP/RAL-2 family protein 2 isoform 9
[Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAESTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELNKLNNQQGQS

>accession|BAF75712.1|Putative SXP/RAL-2 family protein 2 isoform 10
[Anisakis simplex]
MKVLFFVAAVVAVSLAQDQGGPPPLPKFLDGADQATKDAFAALAQTFKDDTDKQVEDAVQQ
FVNDHPAIKDAYEAEKKEVLAAQQAAEEHKKLVAALPPDAQKADAELTAIADDASLTLA
AKHDKIVQTFESLPPAVKEELDKLNQQGQS

>accession|ABU42022.1|Putative 11S globulin [Pistacia vera]
MGYSSLLSFSLGLLLFHC SFAQIEQVNSQQRQQQRFTQCQIQNLNALEPKRRIESE
AGVTEFWQNEEQQLQCANVAVFRHTIQSRGLLVPSYNNAPELVYVVGSGIHGAVFPGCP
ETFQEESSQSRSRSQHSRSERSQQSGEQHQKVRHIREGDI IALPAGVAHWIYNNQSKLVL
VALADVGNSENQLDQYLRFVFLGGSPQQEIQGGGQSWQSRSRSGKQQSNNILSAFDEEI
LAQSLNIDTQLVKKLQREEKQRGIIVRVKEDLQVLSPOQRQEKEYSDNGLEETFCTMTLKL
NINDPSRADVYNPRGGRVTSINALNLPILRFLQLSVEKGVLYQNAIMAPHWNMNAHSIVY
ITRGNRMIQIVSENGESVFDEEIREGQLVVVPQNFVAVKRASSDGFVWVSKTNGLAKIS
QLAGRISVMRGLPLDVIQNSFDISREDAWNLKESRSEMTIFAPGSRSSQRQRN

>accession|ABU49605.1|Allergen Der f 1 allergen [Dermatophagoides
farinae]
MKFVLAIVSLLVLSTVYARPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES LKYVEAN
KGAINHLSLSDLSDEFKNRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRLT
VTPIRMQGGCGSCWAFSGVAATESAYLAYRNTSLDLSEQELVDCASQHGCHGDTIPRGIE
YIQNGVVEERSYPYVAREQQCRPNSSQHYGISNYCQIYPPDVKQIREALTQTHTAIAVI
IGIKDLRAFQHYDGRITIQHDNGYQPNYHAVNIVGYGSTQGVYWIWRNSWDTTWGDSGY
GYFQAGNNLMMIEQYPYVIVM

>accession|ABU53681.1|Putative tropomyosin [Sinonovacula constricta]
MDAIKKMQAMKIEKENALDKSEQLNKLKEIEDVKVKEEDLTS LQKKYTNQENEYDKV
NEQFNESVTKLEASEKRVTECEDEIKGFTRRIQLLEDELERTQQKAAEEAVLKLEEASKAA
DESERGRKVLERSIADDDRIDKLEKDVKDSKYLAEEADRKYDEAARKLAITEVDLERA
TRLEAAESKITELSEELQVVGNNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRA
EAERVVNKLQKEVDRLLEDELLQEKEYKQISDELDQTFAE LAGM

>accession|BAF76430.1|Allergen tropomyosin [Euphausia superba]

MDAIKKKMQAMKMEKDSAMDRSDALEAQNKETNAKADKADDEVHNLQKRLQTLLENDLDQV
SEALLKANTQLVEKDKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSMLEERMDALESQKLEARLLAEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKHLTHKLKTAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKGITDELDTFNELSGY

>accession|BAF76431.1|Allergen tropomyosin [Euphausia pacifica]
MDAIKKKMQAMKMEKDSAMDRADALEAQNKETNARAEEKADDEVHNLQKRLQTLLENDLDQV
SEALLKANTQLVEKDKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLLEERMDALENQLKLEARLLAEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKHLTHKLKTAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKGITDELDTFNELSGY

>accession|ABU95411.1|Putative Sin a 3 allergen [Sinapis alba]
ALSCGTVNSNLAACIGYLTQNAPLPKGCCTGVTNLNNMARTTPDRQQACRCLVGAANSFP
SLNAARAAALPKACGVNIPYKISKSTNCNSVR

>accession|ABU95412.1|Putative Sin a 4 allergen [Sinapis alba]
MSWQTYVDDHLMCDVEGNRLTAAAILGQDGSVWAQSANFPQLKPEEIKGINNDFAEPTL
APTGLFIGGTYMVIQGEFNAVIRGKKGAGGVTIKKTTQAFVFGIYEEPMTPGQCNMVVE
RLGDYLIQGL

>accession|ABU97466.1|Allergen group 10 allergen Blo t 10 [Blomia
tropicalis]
MEAIKKKMQAMKLEKDNAIDRAEIAEQSRDANLRAEKSEEEVRLQKKIQQIENELDQV
QESLTQANTKLEEKEKSLQTAEGDVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMRKMLEHRSITDEERMDGLESQKEARMAEDADRKYDEVARKLAMVEADLERAE
ERAETGETKIVELEEEELRVVGNLKSLEVSEEKAQQREEAYEQQIRMMTGKLEAEARAE
FAERSVRKLQKEVDRLEDELVHEKEKYKISIDELDTFAELTGY

>accession|ABU97470.1|Putative arginine kinase [Dermatophagoides
farinae]
MVDQATLSKLEAGFQKLQNAQDCHSLLKKYLTRDVLQKTKKTDMGATLLDVIQSGVEN
LDSGVGIYAPDAQSYKTFEALFDPIIDDYHKGFKPTDKHPQTDGFGNIEHFVNVDPKNEYV
ISTRVRCGRSLKGYFPNPLMTEAQYKEMETKVKGQLATFEGELKGTYYPLLGMKATQQK
LIDDHFLFKEGDRFLQAANACRYWPVGRGIFHNDKKTFLMWVNEEDHLRIISMQKGGDLK
EVFGRLLVAVKHIEQKIPFSRDDRLGYLTFCTNLGTTIRASVHIKLPKLAADRKKLEEV
AARYNLQVRGTAGEHTESVGGIYDISNKRMRGLTEYQAVKEMQDGIIELIKMEKSL

>accession|ABU97472.1|Putative profilin [Glycine max]
MSWQAYVDDHLLCEIEGNHLTHAAIIGQDGSVWAQSTNFPQFKPEEITAINNDFNEPGSL
APTGLYIGGTYMVIQGEFPAVIRGKKGPGGVTVKKTGAALIIGIYDEPMTPGQCNMVVE
RLGDYLIDQGL

>accession|ABU97479.1|Putative tropomyosin [Tyrophagus putrescentiae]
MEAIKKKMQAMKLEKDNAIDRAEIAEQKARDANLSEKTEEEVRLQKKIQQIENELDQV
QENLTQATTKLEEKEKALQTAEDVAALNRRIQLIEEDLERSEERLKVATAKLEEASHSA
DESERMRKMLEHRSIPDEERMDGLESQKEARLMAEDADRKYDEVARKLGMVEAHLERAE
ERAQLGIXIAKLERTARLRHT

>accession|ABU97480.1|Putative allergen Tyr p 13 [Tyrophagus
putrescentiae]
MVQLNGSYKLEKSDNFDAFLKELGVNFVTRNLAKSASPTVEVIVDGSYTIKTSSTLKNS
EIKFKLGEFEEDRADGKKVQTSVTKEGDNKLVQVQKGDKPVTIVREFSEGLTVTATVN

GATSVRFYKRQ

>accession|ABV55106.1|Putative Ani s 9 allergen precursor [Anisakis simplex]

MKLCILAVAVFVVAQGGPPPLPPFVANAPPAVQAEFRQLANGAPDKTEAEIEAQIEQW
VASKGGAVQAEFNKFKQMLEQKARAEAAHQASLTRLSPAACAADARLSAIASNRALKVG
EKQRQLAAAFQALDPAVKAELQKEMQG

>accession|ABV66255.1|Allergen Der p 1 allergen [Dermatophagoides pteronyssinus]

TNACSINGNAPAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQ
ELVDCASQHNCHGDTIPRGIEYIQHNGVQESYRYVAREQSCRPNQRFGISNYCQI
YPQNVNKIREALAQTHSAIAVIGIKDLDAFRHYDGRITIQRDNGYQPNYHAVNIVGYSN
AQGVYDWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVIL

>accession|1A9V_A|Allergen Chain A, Tertiary Structure Of The Major House Dust Mite Allergen Der P 2, Nmr, 10 Structures [Dermatophagoides pteronyssinus]

SQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENVVTVKVMGDDGVLACA
IATHAKIRD

>accession|1CQA_A|Allergen Chain A, Birch Pollen Profilin [Betula pendula]

MSWQTYVDEHLMCDIDGQGEELAASAIVGHDSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTGQCNMV
VERLGDYLIDQGL

>accession|ABW17159.1|Putative Ara h 7 allergen precursor [Arachis hypogaea]

MVKLSILVALLGALLVVASATRWDPDRGSRGSRWDAPSRGDDQCQRQLQRANLRPCEEHI
RQRVEKEQEQEYPIYIQRGSRGQRPGESEDEQEQRCCNELNRFQNNQRRCMCQALQQIL
QNSFRFQDRSQLHQMERELRNLPQNCGFRSPSRCDLSSRTPY

>accession|ABW23574.1|Putative 8S globulin alpha subunit [Vigna radiata]

MVRARIPLLLLLGILFLASLSVSFGIVHRENIDGAEVSVSRGKNNPFYFNSDRWFHTLFR
NQFGHLRVLQRFQDQSKQMQLNENYRVVELMSKPNLTLPHHADADFLVVLNGRAVLT
VNPDRGSDNILEQGHAKIPAGTTFVLVNPDDNENLRILKLAVPVNNPHRFQDFFLSSTE
AQQSYLQGFSGKNILEASFDSDIKEISRVLFGGEEGQQQQQGESQQEGVIVELKREQIREL
TKHAKSSSKSLSEDDQPFNLRNQKPIYSNKLGRWFEITPEKNPQLRDLDMFIRSVDMKE
GSLLLPHYNSKAIVILVINEGKANIELVGQREQQKQQEEQEESEWVQRYRAELSEDDVFI
IPATYPVAINATSNLNFFAFGINAENNRNFLAGEKDNVISEIPTVFLDVTFPASGEKVK
KLIKQSESQFVDAQPEQQEREEREARKGGKGPVY

>accession|ABW34946.1|Allergen hevein [Hevea brasiliensis]

MNIFIVVLLCLTGVAIAEQCGRQAGGKLCNNLCCSQWGWCGSTDEYCSPDHNCQSNCKD
SGEGVGGGSASNVLATYHLYNSQDHGWDLNAAASAYCSTWDANKPYSWRSKYGWTAFCGPV
GAHQGPSCGKCLSVTNTGTGAKTTVRIVDQCSNGGLDLVNVFRQLDQDQKGYERGHILT
NYQFVDCGDSFNPLFSVMKSSVIN

>accession|P15476.2|Allergen RecName: Full=Patatin-B1; Flags: Precursor [Solanum tuberosum]

MATTKSFLILFFMILATTSSTCAKLEEMVTVLSIDGGGIKGIIPAIILEFLEGQLQEVDN
NKDARLADYFDVIGGTSTGGLLTAMITTPNENNRPFAAAKDIVPFYFEHGPPIFNYSGSI

FGPRYDGKYLQLVLEKLGQTRVHQALTEVAISSFDIKTNKPVIFTKSNLAKSPELDAKM
YDICYIAAAPIYFPPHHFVTHTSNGATYEFNLVDGGVATVGDPAALLSLSVATRLAQEDP
AFSSIKSLDYKQMLLLSLGTGTNSEFDKTYTAEAAKWGPLRWMLAIQQLTNAASSYMTD
YYISTVFQARHSQNNYLVRVQENALTGTTTMEDDASEANMELLVQVGETLLKPKVSKDSPE
TYEEALKRFAKLLSNRKKLRANKASY

>accession|ABW86978.1|Putative 11S legumin protein [Carya illinoensis]
MAKPILLSIYLCLIIIVALFNGCLAQSGGRQQHKGFGQCQLNRLDALEPTNRIEAEAGVIES
WDPNHQQLQCAGVAVVRRRTIEPNGLLLPHYSNAPQLVYIARGRGITGVLFPGCPETFEEES
QRQSQQGQRREFQQRDRHQKIRHFREGDIIAFPAGVAHWCYNDGSSPVVAIFLLDTHNNAN
QLDQNPFRNFYLAGNPDEFRPQGGQEQYEYEQHRRQQQHQQRRGEHGEQQORDLGNNVFSGFDA
EFLADAFNVDTEATARRLQSENDHRGSIVRVEGRQLQVIRPRWSREEQEHEERKERERERE
SESERRQSRGGRRDDNGLEETICTLSLRENIGDPSRADIYTEEAGRISTVNSHNLPIILRW
LQLSAERGAALYSDALYVPHWNLNAHSVVYALRGRAEVQVVDNFGQTVFDDELREGQLLTI
PQNFAVVKRARDEGFVWVSKTNENAMVSPLAGRTSAIRALPEEVLVNAFQIPREDARRL
KFNRQESTLVRSRSTRSSRSERRAEV

>accession|ABW86979.1|Putative 11S legumin protein [Carya illinoensis]
MAKPILLSIYLCLIIIVALFNGCLAQSGGRQQHKGFGQCQLNRLDALEPTNRIEAEAGVIES
WDPNHQQLQCAGVAVVRRRTIEPNGLLLPHYSNAPQLVYIARGRGITGVLFPGCPETFEEES
QRQSQQGQRREFQQRDRHQKIRHFREGDIIAFPAGVAHWCYNDGSSPVVAIFLLDTHNNAN
QLDQNPFRNFYLAGNPDEFRPQGGQEQYEYEQHRRQQQHQQRRGEHGEQQORDLGNNVFSGFDA
EFLADAFNVDTEATARRLQSENDHRGSIVRVEGRQLQVIRPRWSREEQEHEERKERERERE
SGSERRQSRGGRRDDNGLEETICTLSLRENIGDPSRADIYTEEAGRISTVNSHNLPIILRW
LQLSAERGAALYSDALYVPHWNLNAHSVVYALRGRAEVQVVDNFGQTVFDDELREGQLLTI
PQNFAVVKRARNEGFEWVSKTNENAMVSPLAGRTSAIRALPEEVLVNAFQIPREDARRL
KFNRQESTLVRSRSTRSSRSERRAEV

>accession|1B6F_A|Allergen Chain A, Birch Pollen Allergen Bet V 1 [Betula
pendula]
GVFNYETETTSVIPAARLFKAFILDGDNLFKVPAPQAISSVENIEGNGGPGTIKKISFPE
GPFKYVKDRVDEVDHTNFKNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAQVKASKELGETLLRAVESYLLAHS DAYN

>accession|1H20_A|Allergen Chain A, Solution Structure Of The Major
Cherry Allergen Pru Av 1 Mutant E45w [Prunus avium]
GVFTYESEFTSEIPPRFLKAFVLDADNLVPKIAPQAIKHSEILWGDGGPGTIKKITFGE
GSQYGYVKKHIDSIDKENYSYSYTLIEGDALGDTLEKISYETKLVASPSGGSIIKSTSHY
HTKGNVEIKEEHVKAGKEKASNLFKLIETYLKGHDPDAYN

>accession|1W2Q_A|Allergen Chain A, Allergen Arah6 From Peanut (Arachis
Hypogaea) [Arachis hypogaea]
GPMRRERGRQGDSSSCERQVDRVNLKPCQHMQRIMGEQEYQYDSYDIRSTRSSDQQQRC
CDELNEMENTQGCMEALQQIMENQCRLQDRQMVOQFKRELMSLPQQCNFRAPQRCDLD
VSGGRCS

>accession|ABW98943.1|Allergen alpha S1 casein [Bos taurus]
VSAALARPKHPIKHQGLPQEVLNENLLRFFVAPFPEVFGKEKVNELSKDIGSESTEDQAM
EDIKQMEAESISSSEEIVPNSVEQKHQKEDVPSERYLGYLEQLLRLKKYKVPQLEIVPN
SAERLHSMKEGIHAQQKEPMIGVNQELAYFYPELFRQFYQLDAYPSGAWYYVPLGTQYT
DAPSFSDIPNPIGSENSEKTTMPLW

>accession|ABW98945.1|Allergen alpha S1 casein [Bos taurus]
FSEVFGKEKVNELSKDIGSESTEDQAMEDIKQMEAESISSSEEIVPNSVEQKHQKEDVPS

SERYLGYLEQLLRLKKYKVPQLEIVPNSAEERLHSMKEGIHAQQKEPMIGVNQELAYFYF
ELFRQFYQLDAYPSGAWYYVPLGTQYTDAPSFSDIPNPIGSENSEKTTMPLW

>accession|ABW98953.1|Allergen alpha S1 casein [Bos taurus]
IVPNSVEQKHIQKEDVPSERYLGYLEQLLRLKKYKVPQLEIVPNSAEERLHSMKEGIHAQ
QKEPMIGVNQELAYFYFPELFXQFYQPDAYPSGAWYYVPLGTQYTDAPSFSDIPNPIGSEN
SEKTTMPLW

>accession|2JMH_A|Allergen Chain A, Nmr Solution Structure Of Blo T 5, A
Major Mite Allergen From Blomia Tropicalis [Blomia tropicalis]
GSQEHKPKKDDFRNEFDHLLIEQANHAIEKGEHQLLYLQHQDELNENKSKELQEKIIRE
LDVVCAMIEGAQGALERELKRTDLNILERFNYEEAQTLKILLKDLKETEQKVVDIQTQ

>accession|ABX26131.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPLGHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNIIVGEGDTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIIGLQG

>accession|ABX26132.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGLTTVTGNLSGLKPLGHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGTAAINIVDKQIPLTGPHSIIIGRAVVVHSDPDDLGRG
CHELSKSTGNAGGRVACGIIIGLQG

>accession|ABX26134.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPLGHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHEQSKSTGNAGGRVACGIIIGLQG

>accession|ABX26138.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPLGHGFHVNALGATTNGCMSTG
PHFDPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIIGLQG

>accession|ABX26139.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVFNSSEGVTGTVYFTQEGDGLTTVTGNLSGLKPLGHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGDAGGRVACGIIIGLQG

>accession|ABX26140.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTITGNLSGLKPLGHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVTCGIIIGLQG

>accession|ABX26141.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVAGTVYFTQEGDGPTTVTGNLSGLKPLGHGFHAHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIIGLQG

>accession|ABX26143.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPLGHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDRQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIIGLQG

>accession|ABX26145.1|Putative allergen Ole e 5 [Olea europaea]

MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVRLALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX26147.1|Putative allergen Ole e 5 [Olea europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVNALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54842.1|Putative Ole e 5 olive pollen allergen [Olea
europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTITGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54844.1|Putative Ole e 5 olive pollen allergen [Olea
europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDATNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54849.1|Putative Ole e 5 olive pollen allergen [Olea
europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDITNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54855.1|Putative Ole e 5 olive pollen allergen [Olea
europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAISIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRSGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54859.1|Putative Ole e 5 olive pollen allergen [Olea
europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54862.1|Putative Ole e 5 olive pollen allergen [Olea
europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDFGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54864.1|Putative Ole e 5 olive pollen allergen [Olea
europaea]
MVKAVTVINSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGTAAINIVDKQIPLTGPHSIIIGRAVVVHSDPDDLGRG
GHELKSTGNAGGRVACGIIGLQG

>accession|ABX54866.1|Putative Ole e 5 olive pollen allergen [Olea
europaea]
MVKAVTVLNSSEGVTGTVYFTQEGDGPTTVTGNLSGLKPGLHGFHVHALGDTTNGCMSTG

PHFNPVGKEQGAPGDENRHAGVLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54869.1|Putative Ole e 5 olive pollen allergen [Olea europaea]

MVKAVTVLNSSEGVTGTVYFTQEGDGPTTITGNLSGLKPGHLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHVLSKSTGNAGGRVACGIIGLQG

>accession|ABX54876.1|Putative Ole e 5 olive pollen allergen [Olea europaea]

MVKAVTVLNSSEGVTGTVYFTQKGDGPTTITGNLSGLKPGHLHGFHVHALGDTTNGCMSTG
PHFLPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX54877.1|Putative Ole e 5 olive pollen allergen [Olea europaea]

MVKAVTVFNSSEGVTGTVYFTQEGDGPTTITGNLSGLKPGHLHGFHVHALGDTTNGCMSTG
PHFNPVGKEHGAPGDENRHAGDLGNITVGEDGTAAINIVDKQIPLTGPHSIIIGRAVVVHS
DPDDLGRGGHELKSTGNAGGRVACGIIGLQG

>accession|ABX56711.1|Putative LTP isoallergen 1 precursor [Arachis hypogaea]

MASLKFAFVMLVCMAMVGMVNAISCGQVNSALAPCIPFLTKGGAPPPACCSGVRGLLG
ALRTTADRQAACNCLKAAAGSLRGLNQGNAAALPGRCGVSIPYKISTSTNCATIKF

>accession|ABX57814.1|Putative delta class glutathione S-transferase [Blattella germanica]

MTIDFYLLPGSAPCRSVLLAAKAFGVNLSKVTNLMAGEHLTPEFLKMNPOHTIPTLNDN
GFCLWESRAILSYLADQYKDDSLYPKDPKRALVDQRLYFDLGTLYQRFQDYYPIMFA
KASPDAEKMKKLEEAQFLDKFLEGQKFVAGNSLTIADIATIASVSTAAAILGFDITRYPN
VNKWFENAKKVIPGYDELNHSGLCFRKMWDNLTQK

>accession|ABX75045.1|Putative LTP isoallergen 2 [Arachis hypogaea]
LSCGQVNSALAPCITFLTKGGVPSGPPCCSGVRGLLGAAKTADRQAACNCLKAAAGSLHG
LNQGNAAALPGRCGVSIPYKISTSTNCATIKF

>accession|BAF95206.1|Allergen tropomyosin [Oratosquilla oratoria]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKAEVHNLQKRMQQLENDLDQV
QEQLLKANTQLEEKDKALQNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLNRSLSDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKQLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTQTFSELSGY

>accession|ABY21305.1|Putative pollen allergen Pla o 1 [Platanus orientalis]

MKLSFSLCIIFFLISADIVQGTCKKVAQRSPNVNYDFCVKSLGADPKSHSADLQGLGVISA
NLAIQQGSKIQTFIGRILKSKVDPALKKYLNDVGLYADAKSSVQEAIAFDKSKDYASAN
VKMSAALDDSVTCEGDFKEKKGIASPVTKENKDYVQLTAISLAITKLLGA

>accession|ABY21306.1|Putative pollen allergen Pla o 2 [Platanus orientalis]

MRGVQSSGGTFNVNDYGAKGSGDISQAVMKAWEAACASPGPSTVLIPTGNYIMGEVLLG
PCKGSKIGFQLDGVVKAPADVSAFKSEGWVFNHVDGLTVSGKGTDFDQGGQKAWAANNCD

KDENCNRPPMNIRFNFLKNAVVRDITSMNSKMFHINVLECDNISFQHVTISAPGTSINTD
GIHIGLSRGVTITDTNIATGDCCVSIQPGSQNVTVTKVNCVPGHGIVSVGLGKYKDEKDV
RGITVTGCTFTGTSTNGVRVKTWPDSPPGVATDMAFEDLTMKNVQNPVILDQEYCPYGCQS
LKAPSRVKLSNIKFNNIRGTSSGPDIAIVIAACSHGFPCSLEIGEINLALHAAGAPANSTC
TNAKPIFSGKQVPAIKCA

>accession|ABY28115.1|Putative Der f 3 allergen precursor
[Dermatophagoides farinae]
MMILTIVVLLAANILATPILPSSPNATIVGGVKAQAGDCPYQISLQSSSHFCGGSILDEY
WILTAACHCVNGQSACKLSIRNNTLKHASGGEKIQVAEIQHENYDSMTIDNDVALIKLKT
PTTLDQTNAPVPLPAQGSVDKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSQCQDSSGGPVVDIATKQIVGIVSWGYGCARKGYP
GVYTRVGNFVDWIESKRSQ

>accession|ABY53034.1|Allergen Der p 2 allergen [Dermatophagoides
pteronyssinus]
MYKILCLSLVAAVARDQVDVKDCANHEIKKVLVPGCHGSEPCI IHRGKPFQLEADFEAN
QNRKTAKIEIKASIDGLEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVPKIAPKSENV
VTVKVMGDDGVLACAIATHAKIRD

>accession|CAK93713.1|Allergen profilin [Malus x domestica]
MSWQTYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGIMNDFNEPGSL
APTGLYLGGTKYMVIQGEVAVIRGKKGPGGVTVKKSTMALLIGIYDEPMTPGQCNMVE
RLGDYLIEQGL

>accession|CAK93753.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGNSLTAAAILGQDGSVWAQSATFPFAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEVAVIRGKKGSGGITIKKTSQALLIGIYDEPVTGQCNIVVE
RLGDYLIEQGL

>accession|CAK93757.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGNSLTAAAILGQDGSVWAQSATFPFAFKPEEIAAILKDFDQPGTL
APTGLFLGGTKYMVIQGEVAVIRGKKGSGGITIKKTSQALLIGIYDEPVTGQCNIVVE
RLGDYLIEQGL

>accession|A2VBC4.1|Putative Venom phospholipase A1 precursor (Allergen
Poly p 1) [Polybia paulista]
MNFKYSILFICFGTLDRGLIPECFNEYDILFFVYTRQQRDGIIVLTEETLQNYDLFKKST
ISRQVVFIDHGFLSNGNENFIAMAKALIEKDNFLVISVDWKKGACNAFASTLDYLGYST
AVGNTRHVGKYVADFTKLLVEQYKVSMSNIRLIGHSLGAHTSGFAGKEVQELKLNKYSNI
DGLDPAGPSFDSNDCEPERLCEYVQI IHTSNILGVYSKIGTVDFYMNYSQPGCGR
FFSPSCSHTKAVKYLTECIKHECCLIGTPWKKYFSTPKPISQCTKDTCCVGLNAKSYP
RGSFYVPVEATAPYCHNEGIKL

>accession|2JON_A|Allergen Chain A, Solution Structure Of The C-Terminal
Domain Ole E 9 [Olea europaea]
ATPTPTPKAAGSWCVPKPGVSDQLTGNINYACSQGIDCGPIQPGGACFEPNTVKAHAAY
VMNLYYQHAGRNSWNCDFSQTATLTNTNPSYGACNFPSSGN

>accession|ABZ81040.1|Allergen pollen allergen Car b 1 isoform [Carpinus
betulus]
MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGKLEKVSHELKIVAAPGGGSILKISSK
FHAKGDHEVNAEEMKGAKEMAELLLRAVESYLLAHTAEYN

>accession|ABZ81041.1|Allergen pollen allergen Car b 1 isoform [Carpinus betulus]

MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSVVKISSK
FHAKGDHEVNAEEMKGAKEMAELLLRAVESYLLAHTAEYN

>accession|ABZ81042.1|Allergen pollen allergen Car b 1 isoform [Carpinus betulus]

MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEEMKGAKEMAELLLRAVESYLLAHTAEYN

>accession|ABZ81043.1|Allergen pollen allergen Car b 1 isoform [Carpinus betulus]

MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEEMKGAKEMAELLLRAVESYLLAHTAEYN

>accession|ABZ81044.1|Allergen pollen allergen Car b 1 isoform [Carpinus betulus]

MGVFNIEAETPSVIPAAARLFKSYVLDGDKLIPKVAPQAISSVENVGGNGGPGTIKNITFA
EGIPFKFVKERVDEVDNANFKYSYTVIEGDVLDGDKLEKVSHELKIVAAPGGGSIVKISSK
FHAKGDHEVNAEEMKGAKEMAELLLRAVESYLLAHTAEYN

>accession|ABZ81045.1|Allergen pollen allergen Que a 1 isoform [Quercus alba]

MGVFTHESEQETSVIAPARLFKALFLDSDNLIQKVLPPQAIKSTEIEGNGGPGTIKKITFG
EASKFKYAKHRIDALDPENCTYSFSVIEGDALTMESVSTEIKCVASPDGGSIMKSTTKY
QTKGDFQLKEEQIQAAIEKAAGLLKAVEAYLVAHPDLYK

>accession|ABZ81046.1|Allergen pollen allergen Que a 1 isoform [Quercus alba]

MGVFTYSEEDASVIPPARLFKAFVLSDNLIQKVVPPQALKSTEIEGNGGPGTIKKITFG
EGSHLKHAKHRIDVIDPENFTYSFSVIEGDALFDKLENVSTETKIVASPDGGSIVKSTSK
YQTKGDFQLTDELIRGGKEKASEVFKAVEAYLVAHPDLYK

>accession|ABZ81047.1|Allergen pollen allergen Que a 1 isoform [Quercus alba]

MGVFTHESEQETSVIAPARLFKALFLDSDNLIQKVLPPQAIKSTEIEGNGGPGTIKKITFG
EGSHLKHAKHRIDVIDPENFTYSFSVIEGDALFDKLENVSTETKIVASPDGGSIAKSTSK
YQTKGDFQLTDELIRGGKEKASGVFKAVEAYLVAHPDLYK

>accession|ABZ81991.1|Allergen Tyr p 3 [Tyrophagus putrescentiae]

MKILLFLCFLVSVAFAPPTIQLKSNTKSQNGFIVGGTEAVDGDAPHQVSLQHTSHFCGG
SIISERWILTAAHCIDADDLSNPGGMSVRYNTLNLKSGTLVKVKSIVHEQYSNVTSND
IALLETVASMNLNQTNAVAALKLPKAGNDPQDGDLFSLGWTLLHSGDTTIPTNLQKVTVPL
TNRVCAEAYTGIVNITENMFCAGKMGIGGVDSCQGDSSGGGAMLNKLKELVGVVSVFGVCGD
PKYPGVYTRVSQYLDWIELSAKSSATTLVAVNITLFLTLFIGAIW

>accession|ACA00159.1|Allergen dipeptidylpeptidase IV preproprotein [Vespa vulgaris]

MVPLRSFVLLNSLFLVLLAARTVVTRVIDKDNSDRIVKTQNDQNLKVPFNLEETYTADF
LAYVFNGTWTSDDTTIVYTDRTGDILQFDVIKQRSTLIVDSSVMDAYIVSNYVLSPKGRY

LLIGYDLKKGYRYSTFMRYVIYDIEHRAHYHKIGNDMHIALAKWAPLTDDLIIYILDNDIYY
MRFSSNNGFNDVQRVTYDGI SGIVYNGVDPDWVYEEVLDQSSAIWFSPDGNHLAYASFDDR
NVQEILYLHYGEPGNLDDQYPTVEVKIKYPKVGTLPVVSLLVLDLHDPTLNKIDLKAPHY
AVGTDNLLYNVQWKDFDHVVVWTSNRVQNKTEIVWYNMYGEIVKTLHVVEHKGWLDIKHL
FFYKGSVYIRKLPQSGTKAGRFHHVTRYDETFFKQSPQMDLTPDAIEVQNICIDQSNGR
IYYLASGLGKPSQKNLYSVPADGSEKPTCISCNVLTPEGNVCTYADAI FSPGLQYYVLC
HGPDPAFVSI FNNNAHQKVYSWENNL SLRKKLAKRHLPLVKDL DVRANGYESKVRLFLPHN
FDESKSYPLVNVYAGPNTLKIIDAASYGHQVYMTTNRSVIYAYIDGRGSSNKGSKMLFS
IYRKLGTVEVEDQITVTRQLQEMFPWIDSKRTGVWGWSYGGFSTAMILAKDTSFVFKCGI
AIAPVSSWIYYDSIYTERFMGFPTPEDNLSGYNETDVSRRVEDIRGKKFMLIHGSGDDNV
HYQQSLALAKALEKADVMFEQITYTDEAHALFGVLPPLHYHTMDRFWSDCFSLSHAH

>accession|ACA00204.1|Putative arginine kinase [Periplaneta americana]
MVDAAVLEKLEAGFAKLAASDSKSLKLYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTKDKHPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYFPNPLTEAQYKEMEDKVSSTLSGLEAEPKGQFYLLTGMTKEVQQK
LIDDFLFLKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGGDLG
QVYRRLVTAVNDIEKRIPFSDHDLGLFTFCPTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>accession|ACA23876.1|Allergen Pas n 1 allergen precursor [Paspalum
notatum]
MGLAKIVAVAAVLAALVAGGSCGPPKVPVPGPNITTNYNKGWLPKATWYGQPNGAGPDD
NGGACGIKVNLPYNGFTACGNPPIFKDGKGCSCYEIRCNKPECSGQPVTVFITDMNY
EPIAPYHFDLSGKAFGAMAKPGLNDKLRHYGIFDLEFRRVCKYQGGQKIVFHVEKGSNP
NYLAMLVKFVADDGDIVLMELKEKSSDWKPKLSWGAIWRMDTPKALVPPFSIRLTSESG
KKVIAQDVIPVNWKPDTVYNSNVQF

>accession|ACA79908.1|Allergen Ara h 8 allergen isoform 3 [Arachis
hypogaea]
MGVFTFEDEITSTLPPAKLYNAMKDADSITPKIIDVKSVEIVEGNNGPGTIKKLTIVED
GETKFILHKVEAIDEANYAYNYSVVGVALPPTAEKITFETKLVGEPNGGSIGKLSVKFH
SKGEAKPEEEDMKKGKAKGEALFKAIEGYVLANPTQY

>accession|ACA96507.1|Putative Pac c 3 allergen [Pachycondyla chinensis]
TEGGAVHTMCQYTSPQPSNPCGTYSNAHITAADKETILKVHNDERQKVKAGQETRGNPQP
QPAASNMPDLTWDNELAAIAQRWVNQCKIGHDGCNRNVERYQVGNIAMSGSTAKGPCNMN
NLVQMWINEVNALNAADVSSMPSDGNFYFMKIGHYTQLVWGKTTKVGCIIQFLDGKFKYC
YLACNYGPAGNMFGAPIYQ

>accession|ACB05815.1|Putative conglutin beta [Lupinus angustifolius]
MAKMRVRLPMLILLGLVVFLLAASIGIAYGEKDFTKNPPKEREHEPRQQPRPQQEE
QEREHRREEKHDGEPSSRGRSQSEESQEEHERRREHREEREQQPRPQRRQEEEEEEEE
WQPRRQRPQSRREEREEREQEQQSSSGSQRGGGDERRQHRRERVHREEREQEQDSRSDSR
RQRNPHYFSSNRFTYRNRNGQIRVLERFNQRTNRLENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPDKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGLYDFYFSTTKDQQSFSYSGFSKNTLEATFNTRYEEIERVLLGDDELQENKQR
RGQEQQSHQDEGVIVRVSKKQIQELRKHAQSSSGEGKPSSESGPFNLSNKP IYSNKFNGFY
EITPDINPQFDLNLISLTFTEINEGALLLPHYNSKAI FIVVDEGEGNYELVGIRDQQRQ
QDEQEEYEQGEVEVRRYSKLSKGDVFIIPAGHPLSINASSNLRLLLGFGINANENQRNF
LAGSEDNVIKQLDREVKELTFPGSIEDVERLIKNQQQSYFANAQPPQQQQQREKEGRRGR
GPISSILNALY

>accession|ACB38288.1|Putative Lit v 1 tropomyosin [Litopenaeus vannamei]

MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHNLQKRMQQLENDLDQV
QESLLKANIQLVEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMRKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|ACB45874.1|Allergen pathogen-related protein 1 [Cucumis melo var. inodorus]

MLPFSFAQDSIKDFVDAHNAARAQVGVGPVHWNKTVADYAHQYANKRIKDCNLVHSGKPY
GENIAWGSRLAGTVAVRMWVSEKQFYNYDTNSCVRGKMGHYTQVVRNSVRIGCAKVR
CKSGGTFITCNYDPRGNIRGQRPYEGGTLQL

>accession|ACB46292.1|Allergen dust mite allergen precursor [Dermatophagoides pteronyssinus]

MKFNIIVFISLAILVHSSYAANDNDDPTTTVHPTTTEQPDDKFECPSRFGYFADPKDP
HKFYICSNWEAVHKDCPGNTRWNEDEETCT

>accession|ACB55491.1|Putative seed maturation-like protein precursor [Sesamum indicum]

MQFFSRLLGSSRVLATTLSHFYNPCNTKAHFTKAQQLLPAAPYSNKLVIKSMASGQQF
PPQKQEGQPGKEHIMDPTPQATTPEYKANKLVGKVALVTGGDSGIGRAVGHCFALEGAT
VAFTYVKGQEDKDANDTLGMLMKAKHADAKDPIAIPDLGYDENCRRVVEEVVNNYGRID
ILVNNAEQYEASTVEEIDEPLERLFRVFNIFSYFFTSRHALKHMKEGSSIINTTSVNAY
KGNAKLLDYATKGAIVAFTRGLALQMVEKGIKRVNGVAPGPIWTPPLIPASFTEDENAKFG
SQTPMKRAGQPHEVAPSYVFLASNIDSSYITGQVLHPNGGTIVNG

>accession|ACC76803.1|Putative Lit v 3 allergen myosin light chain [Litopenaeus vannamei]

MSRKSGSRSSSKRSKSGGGSNVFDMFTQRQVAEFKEGFQLMDRDKDGVIGKTDLRGTFD
EIGRIATDQELDEMLADAPAPINFMTLLNMFAERQTGESDDDDVVAKAFLAFADEEGNID
CDTFRHALMTWGDKFSSQEADDALDQMDIDDGGKIDVQGVIQMLTAGGGDDAAAAEEA

>accession|NP_001119715.1|Allergen venom dipeptidyl peptidase 4 precursor [Apis mellifera]

MEVLVQLALLLVVHGSLVVLVAGKSVPRVIDQDLERYEPLLEEDHRGARVPFNLEETYDQ
SFRANSFNGTWKTREILYSDNYVGDIRLFDVTTGSGTVLLDSSVTADFDKASVMFSFDN
SHVAIGHDYVNGFRYSIHQKCTVYNIKSRTFTDIANGDRIPLFKWSPTRNALIYVHKNDI
YYQVFFEGGSDTRRITNTGVPDIVFNIGIPDWVYEEVGLGSPVAFWISPDGRHLAFATFND
TNVRDIVISKYSPGNSRDQYPNEIRIKYPKAGTTNPFVLSVIDLHDPSSKLIDLPPPV
DVVGADNVLYTANWRRDGEIVATWTNRVQNKALVLYDTKGNANNIYEEETEGWLRIQP
PLYHDRVIVIAKLQDSGKAGRFLHATRLEYRNGALVDETDLTPGTCEVISLLLVDHARA
RLYYLGTTELKPSHKNLYSVQLSGNEPPVCLSCDVLTPEGNRCTYAYAYFSTNGSHYALY
CAGPDPVFIAIVNANHRQISIWENRSLRRKLAARTQPIVKNFNVNANGYTNKVKLYLPP
DFDETKKYPLLITVYAGPNTIRITEEATYGFESYIVTNRSVIYGRIDGRGSAYKGSKMLF
EIYRRLGTVEIEDQIIITRTLQEKYSWIDSNRTGIWGSYGGFSAAMVLATDAESVFKCG
ISVAPVTSWIYYDSLYTERFMGLPTPEDNQSGYNDTDVSRRVEGMGRGKMYLIHGTAADDN
VHYQQTMMLNKALVNSDIMFQQQTYTDEAHALGNVFPPLYHTTDRFWANCLGYSH

>accession|ACD36974.1|Putative Gly m Bd 28K allergen [Glycine max]

LDSNLIIFIRRGAEAKLGFYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETFQSFYIGGGANSHSVLSGFEPAILLETAFNESRTVVEEIFSKELDGPIMFV
DDSHVPSLWTKFLQLKKDDKEQQLKMMQDQEEDEEEKQTSRSWRKLLLETVFGKVNEKIE

NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIIVLSGYGELHIGYPNGSKAMKTKIKQGDVVFVPRYFPFCQVASRDGPLEFF
GFSTSARKNKPQFLAGAASLLRTLGMPELSAAFVSEDTLRRAVDAQHEAVILPSAWAAP
PENAGKLMEEEEP

>accession|ACD36975.1|Putative Gly m Bd 28K allergen [Glycine max]
LDSNLIIFIRRGAEKLGFIYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETQSFYIGGGANSHSVLSGFEPAILLETAFNESRTVVEEIFSKELDGPIMFV
DDSHAPSLWTKFLQLKKDDKEQQKMMQDQEEDEEEKQTSRSWRKLLLETVFGKVNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIIVLSGYGELHIGYPNGSKAMKTKIKQGDVVFVPRYFPFCQVASRDGPLEFF
GFSTSARKNKPQFLAGAASLLRTLGMPELSAAFVSEDTLRRAVDAQHEAVILPSAWAAP
PENAGKLMEEEEP

>accession|ACD36976.1|Putative Gly m Bd 28K allergen [Glycine max]
LDSNLIIFIRRGAEKLGFIYDDELAERRLKTGDLYMIPSGSAFYLVNIGEGQRLHVICSI
DPSTSLGLETQSFNIGGGANSHSVLSGFEPAILLETAFNESRTVVEETFSKELDGPIMFV
DDSHAPSLWTKFLQLKKDDKEQQKMMQDQEEDEEEKQTSRSWRKLLLETVFGKVNEKIE
NKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLEPDIGVLLVKLSAGSMLAPH
VNPISDEYTIIVLSGYGELHIGYPNGSKAMKTKIKQGDVVFVPRYFPFCQVASRDGPLEFF
GFSTSARKNKPQFLAGAASLLRTLGMPELSAAFVSEDTLRRAVDAQHAAILPSAWAAP
PENAGKLMEEEEP

>accession|ACD36978.1|Putative Gly m Bd 28K allergen [Glycine max]
VLCHGVATTTMAFHDDDEGGDKKSPKSLFLMSNSTRVFKTDAGEMRVLKSHGGRIFYRHHM
IGFISMEPKSLFVFPQYLDNLIIFIRRGAEKLGFIYDDELAERRLKTGDLYMIPSGSAFY
LVNIGEGQRLHVICSIDPSTSLGLETQSFYIGGGANSHSVLSGFEPAILLETAFNESRTV
VEEIFSKELDGPIMFVDDSHAPSLWTKFLQLKKDDKEQQKMMQDQEEDEEEKQTSRSW
RKLLLETVFGKVNEKIENKDTAGSPASYNLYDDKKADFKNAYGWSKALHGGEYPPLEPDI
GVLLVKLSAGSMLAPHVNPISDEYTIIVLSGYGELHIGYPNGSKAMKTKIKQGDVVFVPRY
FPFCQVASRDGPLEFFGFSTSARKNKPQFLAGAASLLRTLGMPELSAAFVSEDTLRRAV
DAQHEAVILPSAWAAPRKMQEAEEMESQMLLKLKQ

>accession|ACD50950.1|Putative Der p 20 allergen [Dermatophagoides
pteronyssinus]
MVDPATLSKLEAGFQKLQNAQDCHSLLKKYLTRDVFDQLKNKKTDMGATLLDVIQSGVEN
LDSGVGIYAPDAQSYKTFEALFDPIIDDYHKGFKPTDKHPKTDGNIENFVNVDPKNEYV
LSTRVRCGRSLNGYFPNPMLEAQYKEMETKVKGQLATFEGELKGTYYPLLGMKATQQQ
LIDDHFLFKEGDRFLQAANACRYWPVGRGIFHNDKKTFLMWVNEEDHLRIISMQKGGDLK
EYVGRVLKAVKHIEQKIPFSRDDRDLGFLTFCPTNLGTTIRASVHIKLPKLAADRKKLEEV
AGRYNLQVRGTAGEHTESVGGIYDISNKRMRGLTEYQAVKEMQDGILELIKMEKSM

>accession|ACD65080.1|Putative serine/threonine protein kinase
[Forcipomyia taiwana]
GTRVDEIKGHPFFREIDWTKELRNQKAPYEPKIKYPTDTSNFDPIDPKLHDSSNADDYM
IEEFFGSGKPCHHGFFEFTFRFFDDADCKISLNHGNSGDRNDNNSNDNQSGAIYV

>accession|ACD65081.1|Putative eukaryotic translation initiation factor
[Forcipomyia taiwana]
MKPLMMQGERAITQIKYNREGDLLFSCAKDHKPNVWFSLNGERLGTFNHAGAVWCVDV
DWTTLITGSGDMSVRLWDVETGTSVACIPCKSSARTVGFSGNQAAYSTDRAMGHIC
ELFVIDSREPSSLNLDGAILKIPISQSKITAMIWGTLDETIITGHENGQITLWDLRIGR
EINSVNDHMGAINDLQLSKDGTMFVSSSRDTTAKLFDSDSLMCLKTYKTERPVNSAAISP
LLEHVVLGGGQDAMEVTTTSARQGFDSRFFHLIYEEEFARVKGHFGPINSLAFHPDGRS

YATGGEDGFVRLQTFDSSYYEYIFD

>accession|CAQ55938.1|Allergen pollen allergen Phl p 4.0102 [Phleum pratense]

YYPTPLAKEDFLRCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPIYIVTPT
NASHIQSAVVCGRRHGVRIRVRSGGHDYEGLSYRSLQPEEFAVVDLSKMRAVWVDGKART
AWVDSGAQLGELYAIHKASTVLAFFAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGTLHDKKSMGDDHFWAVRGGGGESFGIVVAWKVRLLPVPPTVTVFVKIPKASE
GAVDIINRWQVVAPQLPDDLIRVIAQGPATFEAMYLGTCQTLTPMMGSKFPELGMNAS
HCNEMSWIQSIPFVHLGHRDNIEDDLLNRNNTFKPFAEYKSDYVYEPFPKRVWEQIFSTW
LLKPGAGIMIFDPYGATISATPEWATPFPHRKGVLFNIQYVNYWFAPGAGAAPLSWSKEI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTFSSGLVWGQKYFKGNFQRLAITKKG
VDPTDYFRNEQSIPPLIQKY

>accession|CAQ55939.1|Allergen pollen allergen Phl p 4.0202 [Phleum pratense]

YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHRTVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGKLDHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPPTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDDLLNRNNSFKPFAEYKSDYVYQPFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|CAQ55940.1|Allergen pollen allergen Phl p 4.0203 [Phleum pratense]

YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHRSVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDPNGKLDHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPLTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDDLLNRNNSFKPFAEYKSDYVYQPFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|CAQ55941.1|Allergen pollen allergen Phl p 4.0204 [Phleum pratense]

YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIRNSRWSSPDNVKPLYIITPT
NVSHIQSAVVCGRRHRTVRIRVRSGGHDYEGLSYRSLQPETFAVVDLNKMRAVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFAGVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDPNGKLDHDKKSMGDDHFWAVRGGGGESFGIVVAWQVKLLPVPLTVTIFKISKTVSE
GAVDIINKWQVVAPQLPADLMIRIIAQGPKATFEAMYLGTCCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDDLLNRNNSFKPFAEYKSDYVYQPFPKTVWEQILNTW
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQYVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|ACE07186.1|Allergen Art v 3.0201 allergen precursor [Artemisia vulgaris]

MKMMKFFFCAMVVCMVVSSSYAEALKCSDVSNKISACLSYLKQGGEVPADCCTGVKGLNDA
AKTTPDRQTACNCLKTTFKSNKDFKSDFAASLPSKCGVNIPYKISLETDCNKVK

>accession|ACE07187.1|Allergen Art v 3 allergen precursor [Artemisia vulgaris]
MAMKMMKFFCAMVVMVSSSYAEALTCSDVSNKITPCLNYLKQGGEVPADCCTGVKGLN
DAAKTTTPDRQTACNCLKTSFKSNKDLKSDFAASLPSKCGVNIPIYKISLETDCNKVK

>accession|ACE07188.1|Allergen Art v 3.0301 allergen precursor [Artemisia vulgaris]
MAIKMMKVFCIMVVMVSTSYAESALTCSDVSTKISPCLSYLKKGGEVPADCCTGVKGL
NDATKTTTPDRQTACNCLKASFKNKDLKSDFAVPLPSKCGLNLPYKLSLETDCNKVK

>accession|ACE07189.1|Allergen Art v 3 allergen precursor [Artemisia vulgaris]
MAIKMMKVFCMVVMVSSSYAEALTCSDVSTKISPCLNYLKQGGEVPADCCTGVKGL
NDATKTTTPDRQTACNCLKASFKNKDLKSDFAVPLPSKCGLNLPYKLSLETDCNKVK

>accession|P00785.4|Allergen RecName: Full=Actinidain; Short=Actinidin;
AltName: Allergen=Act c 1; Flags: Precursor [Actinidia chinensis]
MGLPKSFVMSLLFFSTLLILSLAFNAKNTQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLRFSTSGSNKTKVSNRYE
PRVGQVLPSYVDWRSAGAVVDIKSQGEGGCWAFSAIATVEGINKIVTGVLISLSEQELI
DCGRTOINTRGCNGGYITDGFQFIINNGGINTEENYPYTAQDGEQCNVDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVDAAGDAFKQYSSGIFTGPCGTAVDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGGAGTCGIATMPSYPVKYNNQNHKPKPYSSLINPP
AFSMSKDGVPVGGDDGQRYSA

>accession|ACE80939.1|Allergen putative allergen Pru du 1.01 [Prunus dulcis x Prunus persica]
MGVFTYESEFTSEIPPRFLKAFVLDADNLVPKIAPQAIKHSEILEGDGGPGTIKKITFG
EGSQYGYVKKHIDSIDKENHSYSYTLTEGDALGDNLEKISYETKLVASPSGGSIIKSTSH
YHTKGDVEIKEEHVKAGKEKASNLFKLIETYLKGHDPDAYN

>accession|ACE80955.1|Allergen putative allergen Pru p 2.02 [Prunus dulcis x Prunus persica]
MMKTLVAVLSLSLTLTLLSFGGAHAATMSFKNNCPYTVWPASFGNPQLSTTGFEASQASFQ
LDTPVPWSGRFFWARTRCSTDASGKFTCATADCGSQLMCNGKTGIPPATLAEFTIAAGGG
QDFYDVS LVDG FNL PMSVTPQGGTGTCKMGSCAANVNLVCPSELQKIGSDGSVVAACLSAC
VKFGEPPQYCCTPPQETKEKCPPTNYSQIFHEQCPDAYSYAFDDNKGLFTCSGGPNYLITF
CP

>accession|ACE80956.1|Allergen putative allergen Pru du 2.01A [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGLTGDQKPQLSLTGFEATG
ISRSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVS LVDG FNL PMAVAPQGGTGECKASTCPADV NKVCPAQLQVKGSDGSVIAC
KSACLAFNQPYCCTPPNDKPETCPPTDYSKIFKTQCPQAYSAYDDKSSTFTCSASPDY
LITFCP

>accession|ACE80957.1|Allergen putative allergen Pru p 2.01A [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGLTGDQKPQLSLTGFEATG
ISNSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSQVSCNGNGAVPPATLVEITIA
ENGGQDFYDVS LVDG FNL PMSVAPQGGTGECKASTCPADINKVCPAELQVKGSDGSVIAC
KSACLALNQPYCCTPPNDKPETCPPTDYSKLFKTQCPQAYSAYDDKSSTFTCSGRPDY

LITFCP

>accession|ACE80958.1|Allergen putative allergen Pru du 2.01B [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFKLATG
ISRSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVS LVDGFNLPMSVAPQGGTGKCKASTCPANVNAACPAQLQVKGSDGKVIAC
KSACLAFNQPKYCCTPPNDKPATCPPTDYSRFFKTQCPQAYSAYDDKSSTFTCNRPDY
LITFCP

>accession|ACE80959.1|Allergen putative allergen Pru p 2.01B [Prunus dulcis x Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFKLATG
ISRSVDAPSPWGRFFGRTRCSTDASGKFTCATADCGSGQVSCNGNGAAPPATLVEITIA
SNGGQDFYDVS LVDGFNLPMSVAPQGGTGKCKASTCPADINKVCPAPLQVKGSDGKVIAC
KSACLAFNQPKYCCTPPNDKPETCPPTDYSKLFKTKQCPQAYSAYDDKSSTFTCSGRPDY
LITFCP

>accession|ACE80972.1|Allergen putative allergen Pru du 4.02 [Prunus dulcis x Prunus persica]
MSWQTYVDDHLMCEIEGNHLSAAAIIGHDGSVWAQSATFPQLKPEEVTGILNDFNEPGSL
APTGLYLGGTKYMVIQGEPEGAVIRGKKGPGVTVKKSTLALLIGIYDEPMTPGQCNMIVE
RLGDYLVEQGL

>accession|ACE80974.1|Allergen putative allergen Pru du 2.02 [Prunus dulcis]
MMKTLVVVLSLSLTLSSFGGAHAATISFKNNCPYTVWPASFGNPQLSTTGFEPLSQASFP
LDTPAPWGRFWARTGCTDASGKFCETADCDGQLMCNGKTGIPPATLAEFTIAAGGGQ
DYDVS LVDGFNLRMSVTPQGGTGTCTKTSKCAANVNAVCPSELQKIGSDGSVVACLSACV
KFNQPYCCTPPQETKEKCPPTNYSQIFHDQCPDAYSAYDDNKGLFTCSGGPNYLITFC
P

>accession|ACE82289.1|Allergen glutathione transferase [Triticum aestivum]
MAGEKGLVLLDFWVSPFGQRVRIALAEKGLPYEYAEEDLMAGKSDRLLRANPVHKKIPVL
LHDGRPVNESLIILQYLEDAPDAPALLPSDPYARAQARFWADYVDKVKYDCGSRLWKLK
GEPQAQARAEMLDILKTLDGALGDKPFFGGDKFGFVDAAFAPFTAWFHSYERYGEFSLPE
VAPKIAAWAKRCGERESVAKSLYSPDKVYDFIGLLKKKYGIE

>accession|ACE82290.1|Allergen peroxiredoxin [Triticum aestivum]
MPGLTIGDTPVNLLELDSTHGKIRIHGYVNGYVILFVSHPGDFTPVCTTELAAMANYAKEF
EKRGVKLLGISCDVQSHKEWTKDIEAYKPGSRVTYPIMADPDRSAIKQLNMVDPDEKDG
QGQLPSRTLHIVGPKVVKLSFLYPSCTGRNMDEVVRAVDSLLTAAKHKVATPANWKPGE
CVVIAPGVSDEEAKMFPQGFETADLPSKKGYLRFTKV

>accession|ACE82291.1|Putative profilin [Triticum aestivum]
MSWQTYVDDHLCCEIDGQHLTSAAILGHGDSVWAESPFPKFKPEEIIAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEPEGVIRGKKGTTGKITIKKTGMALILGIYDEPMTPGQCNLVVE
RLGDYPVEQGF

>accession|CAQ68366.1|Putative parvalbumin [Sardinops sagax]
MALAGLVKEADITAALEACKAADSFDHKAFFHKVGMMSGKSADELKKAFAIIDQDKSGFIE
EELKLFQNFCKKARALTDGETKKFLKAGDNVGDGKIGIDEFNHLVKH

>accession|ACF19589.1|Allergen subtilisin-like serine protease
[Cochliobolus lunatus]
MKYSLIAALPALAAASPTFSTETIHKQSAPVLSSTSAKEVPNSYMWVFKKHVKDASKHHD
WVQSVHSKNTQERMELRKRSSDLPVSNEVFAGLKHTYELSGLKGYSGHFDDLEAIRNH
PDVDYIERDSEVRILGGDEPETENNSPWGLARISHRDSLSFGTWNKYLYAADGGEGVDVY
VIDTGTNVHDHVFEGRAKWGKTI PNGDADEDGNGHGTHCSGTVAGKKYGVAKKAHVYAVK
VLRNSGSGTMSDVVKGVEFAAKSHSEAVSAAKNGKKKGFKGSTANMSLGGGKSTTLDMAV
NAAVDAGLHFAVAAGNDNADSCNYSAAAENAVTVGASTLLDERAYFSNYGKCNDIFAPG
LNILSTWIGSKHATNTISGTSMASPHIAGLLAYMLSLOPAKDSAYAVADITPKKLIKANLI
AIGTVGALS DVPSNTANVLAWNGGGSSNYTDIIIEKGGYTVKKAASKEEEEKESEFRITIPS
LSELEDDFEKAKESAGRKAHVGGKL

>accession|P50635.2|Allergen RecName: Full=Apyrase; AltName:
Full=Adenosine diphosphatase; AltName: Full=ATP-diphosphohydrolase;
AltName: Full=ATP-diphosphatase; Short=ADPase; AltName: Allergen=Aed a 1;
Flags: Precursor [Aedes aegypti]
MAGRPGYSEVIFLYVVSVAVIARATDNMPVVKDVSCLKFPLTLIHINDLHARFEETNMKSN
VCTQKQDCIAGIARVYQKIKDLLKEYESKNPIYLNAGDNFQGTWYNLLRWNVTFADFIKK
LKPAAMTLGNHEFDHTPKGLAPYLAELNKEGIPTIVANLVMNNDPDLKSSKIPKSIKLTV
GKRKIGIIGVLYDKTHEIAQTGKVTLSNAVEAVRREAAALKKDNIDIIVVLSHCSYEEDK
KIAAEAGDDIDVIVGAHSHSFLYSPDSKQPHDPKDKVEGYPYPTLVESKNKRKIPIVQAKS
FGKYVGRLLTYFDEEGEVKNWEGYPVVIDHKVQDQPQILKDLVPWRKVEAIGSTVVGET
MIELDRDSCRDQECTLGVLVYADGFADQYTNDFRPFQAIQAGNFRNPIKVGKITNGDIE
AAPFGSTADLIRLKGADIWDVAEHSFALDDEGRTNCLQVSGLRIVIDISKPVRSRVKKIE
VMDYTNPKSDKLLKPLDKEAEYYIVVPSYLDAGKDGFSAMKRATARRTGPLDSDVFKNYVE
KIKKVDNLKLRVIVCKGSKCT

>accession|A5HII1.1|Allergen RecName: Full=Actinidain; Short=Actinidin;
AltName: Full=Allergen Act d 1; AltName: Allergen=Act d 1; Flags:
Precursor [Actinidia deliciosa]
MGLPKSFVMSLLFFSTLLILSLAFNAKNTLQRTNDEVKAMYESWLIKYGKSYNSLGEWE
RRFEIFKETLRFIDEHNADTNRSYKVGLNQFADLTDEEFRSTYLGFTSGSNKTKVSNRYE
PRVGQVLPSYVDWRSAGAVVDIKSQGECGGCWAFAIATVEGINKIVTGVLISLSEQELI
DCGRTQNTGRCNGGYITDGFQFI INNGGINTEENYPYTAQDGEENLDLQNEKYVTIDTYE
NVPYNNEWALQTAVTYQPVSVALDAAGDAFKHYSSGIFTGPCGTAIDHAVTIVGYGTEGG
IDYWIVKNSWDTTWGEEGYMRILRNVGGAGTCGIATMPSYPVKYNNQNHKPKPYSSLINPP
AFSMSKDGPGVVDGQRYSA

>accession|ACF53836.1|Allergen Bla g 4 isoallergen 1 [Blattella
germanica]
MCITGVILFAVLAVCATDTLANEDCFRHESLVPNLDYKKFIGTWVIAAGTSEALTQYKWCW
NDLFFFNNALVSKYTDSKGNRTTIRGRTKFEKNFTIDYDDEGKAFSAPYSVLATDYDN
YAIVEGCPAAANGHVIVYQLRLTLRSFHPEQGDKEALQHYTVHQVNQHKKAI EEDLKHFN
LKYEDLHSTCH

>accession|ACF53837.1|Allergen Bla g 4 isoallergen 2 [Blattella
germanica]
MCITGVILFAVLALCATDTLADEDCFRHESLVPNLDYERFRGMWVIVAGTSEALTQYKWCW
IDWFSYDDALVSKYTDSKQGNKILIGKIKFEGNKFTIDYDDEGKAFSAPYSVLATDYDNY
AIVEGCPAAANGHVIVYQLRLTWRRFHPKLGDKEMIQHYTLQVNQHKKAI EEDLKHFNL
KYEDLHSTCH

>accession|ACG58378.1|Allergen Der p 1 allergen precursor
[Dermatophagoides pteronyssinus]

MKITLAIASLLALSAVYARPSSIKTFEYKKA FNKSYATFEDEEAARKNFLESVKYVQSN
GGAINHLSLDEFKRNFLMSAEAFEHLKTQSDLNAETNACNINGNAPAEIDLRQMRTV
TPIRMGGCGSCWAFSGVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGI EY
IQHNGVVQESYRYVAREQSCRPNQRFGISNYCQIYPPNVNKIREALAQTHSAIAVII
GIKDLDAFRHYDGRITIIQRDNGYQPNYHAVNIVGYSNAQGVYWIWRNSWDTNWGDNGY
YFAANIDLMMIEEYPYVVIL

>accession|ACG59280.1|Allergen major allergen beta-lactoglobulin [Bos
taurus]
MKCLLLALALTCSGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVE
ELKPTPEGDLEILLQKWENDECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLL
FCMENSAAEPEQSLVCQCLVVRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCHI

>accession|ACG59281.1|Putative major allergen CM16 [Triticum aestivum]
MASESNCVLLLA AVLVSIFA AVAAIGNEDCTP WMSTLITPLPSCRDYVEQQACRIETPGS
PYLAKQQCCGELANIPQQCRCQALRYFMGPKSRPDQSGLMELPGCPREVQMDVFVRLVTP
GYCNLT TVHNTPYCLAMEESQWS

>accession|ACH70931.1|Allergen enolase 3-2 [Salmo salar]
MSITKIHAREILDSRGNPTVEVDLYTAKGRFRAAVPSGASTGVHEALELRDGDKSRYLGK
GTVKAVDHVNKDIAAKLIEKKFSVVDQEKIDHFMLELDGTENKSKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGHKD VILPCPAFNVI NGGSHAGNKLAMQEFMILPIGASN FHE
AMRIGAEVYHNLKNVIKAKYGKDATNVGDEGGFAPNILENNEALELLKTAIEKAGY PDKI
IIGMDVAASEFYKAGKYDLDFKSPDDPARYITGDQLGDLYKSF IKGYPVQSIEDPFDQDD
WAAWTKFTA AVDIQVVGDDLTVTNPKRIQQAVEKKACNCLLLKVNQIGSVTESIKACKLA
QSNWGWVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGAK
AKFAGKDYRHPKIN

>accession|ACH85188.1|Putative main allergen 15 kDa oleosin [Sesamum
indicum]
MAEHYQQQQTRAPHPQLQ PRAQRVVKAAATAV TAGGSLLVLSGLTLAGTVIALTIATPLL
VIFSPVLVPAVITIFLLGAGFLASGGFGVAALSVLSWIYRYLTGKHPPGADQLES AKTKL
ASKAREMKDRAEQFSQQPVAGSQT S

>accession|ACH91862.1|Allergen arachin Arah3 isoform [Arachis hypogaea]
MAKLELSFCFCFLVLGASSISFRQQPEENACQFQRLNAQRPNRIESEGGYIETWNPNN
QEFECAGVALSRLVLRNALRRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGR
RYQSQRPPRRLQEEDQSQQQD SHQKVHRFNEGD LIAVPTGVAFWLYNDHDTDVVAVSLT
DTNNNDNQLDQFPRRFLNAGNHEQEFLRYQQQSRQSRRLSLPYSYSPQSQPRQEEREFS
PRGQHSRRERAGQEEENE GGNIFSGFTPEFLAQAFQVDDRQIVQNLRGENESEEQGAI VT
VRGGLRILSPDRKRGAD EEEEEYDEDEY EYDEEDRRRGRGRSGNGIEETICTATVKKNI
GRNRSPDIYNPQAGSLKTANELNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYAL
RGRAHVQVVDSNGNRVYDEELQEGHVLVVPQNFAVAGKSQSDNF EYVAFKTD SRPSIANL
AGENSVIDNLPEEVVANSYGLPREQARQLKNNNPFKFFVPPSQSPRAVA

>accession|CAP05019.1|Allergen calcium binding protein [Parietaria
judaica]
MADKQIDRAEQERIFKRFD SNGDGKISSSELGEALKALGSVTADEVHRMMAEIDTDGDGA
ISLEEFSSFADANRGLIKDIAKIF

>accession|P18153.2|Allergen RecName: Full=37 kDa salivary gland allergen
Aed a 2; AltName: Full=Protein D7; AltName: Allergen=Aed a 2; Flags:
Precursor [Aedes aegypti]
MKLPLLLAI VTTFSVVASTGPFDP EEMLFTFTRCMEDNLEDGPNRLPMLAKWKEWINEPV

DSPATQCFGKCVLVRTGLYDPVAQKFDASVIQEQFKAYPSLGEKSKVEAYANAVQQLPST
NNDCAAVFKAYDPVHKAHKDTSKNLFHGNKELTKGLYEKLGKDIRQKKQSYFEFCENKYY
PAGSDKRQQLCKIRQYTVLDDALFKEHTDCVMKGIRYITKNNELDAEEVKRDFMQVNKDT
KALEKVLNDCKSKEPSNAGEKSWHYKCLVESSVKDDDFKEAFDYREVRSQIYAFNLPKKQ
VYSKPAVQSQVMEIDGKQCPQ

>accession|CAQ57979.1|Putative profilin [Triticum aestivum]
MSWKAYVDDHLCCEIDGQHLTSAAILGHDGSVWAQSPNFPQFKPEEIAGIVKDFEFGHL
APTGLFLGGTKYMIQGEFVIRGKKGTTGKITIKKTGMALILGIYDEPMTPGQCNLVVE
RLGDYLIDQGY

>accession|ACI25605.1|Putative venom acid phosphatase [Apis mellifera]
MSVIAILAMVVGVAELKQINVI FRHGDRIPDEKNEMYPKDPYLYDFYPLERGELTNSG
KMREYQLGQFLRERYGDFLGDITYEESVSALSSFYDRTKMSLQLVLAALYPPNKLQQWNE
DLNWQPIATKYLRREDNIFLPEDCLLFTIEFDRVLES PRGKYEF SKYDKLKKKLEEWG
KNITTPWDYIIYHTLVAEQSYGLTLP SWTNNI FPRGELFDATVFTYNITNSTPLKKLY
GGPLLRIFTKHLMDVVSGTQKKRKYIYLSGHE SNIAAVLHALQLYYPHVPEYSSSIIME
LHNI EGTHYVKIVYYL GIPSEAGELQLPGCEVLCPLYKYLQLIENVIPSNEELICDKRFA
DESANNLSIEELDFVKLNLIRIAGTENK

>accession|CAR82265.1|Allergen D-type LMW glutenin subunit [Triticum
aestivum]
MARQLNPSNKEQLSPQQSFSHQQQPFPQQPYPPYPSQQPYPSQQPFPTPQPQFPQQSQ
QPFTQPQQPTLPQPQQPFPQQPQQPQQPFPQPQQPFPWQPQQPFPQTQSFPLQPQQPFP
QQPQQPFPQPQLQFPQQPEQIIPQQPQQPFLLESQQPFPQQPQQPFPQPQLIPMQPQQP
FPQQSQQSQQPFPQQLFPELQQPIPQQPQQPFPPLQPQQPFPQQSQQPFPQQPQQPCPL
QPQQPFPQQPQQPFPQQPQQPFPPLQPQQPFPPLRPQQPFSQQPQQSQQSFPQPQPQQPQQP
SILQPQQPFPQPQQLSQQLEQTISQQPQQPFPQQPHQPQQPYPQQQPYGSSSLTSIDGQ

>accession|CAR82266.1|Allergen D-type LMW glutenin subunit [Triticum
aestivum]
MGRLLSPRGKELHTPQEQQFPQQQFPQPQQFPQQQILQQHQIPQQPQQFPQQQQFLQQQQ
IPQQQIPQQHQIPQQPQQFPQQQFPQQQFPQQHQSPQQQFPQQQFPQQQLPQQEFSQQQ
ISQQPQQLPQQQQIPQQPQQFLQQQFPQQQPPQQHQFPQQQLPQQQQIPQQQQIPQQPQ
QIPQQQQIPQQPKQFPQQQFPQQQFPQQQFPQQEFPQQQFPQQQIAQQPQQLPQQQQFPI
PYPPQQSQEPSYQQYPQQQPSGSDVISICGL

>accession|CAR82267.1|Allergen D-type LMW glutenin subunit [Triticum
aestivum]
MGRLLSPRGKELHTPQEQQFPQQQFPQPQQFPQQQILQQHQIPQQPQQFPQQQQFLQQQQ
IPQQQIPQQHQIPQQPQQFPQQQFPQQQFPQQHQSPQQQFPQQQFPQQQLPQQEFSQQQ
ISQQPQQLPQQQQIPQQPQQFLQQQFPQQQPPQQHQFPQQQLPQQQQIPQQQQIPQQPQ
QIPQQQQIPQQPKQFPQQQFPQQQFPQQQFPQQEFPQQQFPQQQIAQQPQQLPQQQQFPI
QQPQLFPPQQQFPQQQSPQQQFPQQQFPQQQQLPQQQFPQPQQIPQQQQIPQQPQQFPQ
QQFPQQQFPQQQFPQQQFPQQQFHQQQLPQQQPSGSDVISICGL

>accession|CAP17694.1|Putative parvalbumin [Lepidorhombus whiffiagonis]
MTFAGLDAAEIKAAALDGC AAADSFDYKFFGACGLAKKSAEEVKA AFNKIDQDES GFIEE
DELKLFQLNFSASARALTDKETANFLKAGDVGDKIGIEEFTDLVRSK

>accession|ACI32128.1|Allergen tropomyosin [Dermatophagoides
pteronysinus]
MEAIKNKMAMKLEKDNAIDRAEIAEQKARDANLRAEKSEEEVRALQKKIQQIENELDQV
QEQLSAANTKLEEKAPQTAEGDVAALNRRIQLIEEDLERSEERLKIATAKLEEASQSA

DESERMKMLEHRSITDEERMEGLENQLKEARMMADADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKAQQREEAHEQQIRIMTTKLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKSISDELDQTFaelTGY

>accession|ACI41244.1|Putative 2S albumin [Sesamum indicum]
MAKKLALAALLVAMVALASATYTTTTVTTTAIDDEANQQSQCRQQLQGRQFRSCQRYL
SQGRSPYGGEEDEVLEMSTGNQQSEQSLRDCCQQLGNVDERCRCEAIRQAVRQQQEGGY
QEGSQQVYQRARDLPRRCNMRPQQCQFRVIFV

>accession|ACI47547.1|Putative nonspecific lipid transfer protein
[Juglans regia]
MTGSLVLLKSGMVLLCMVVAAPVAEAVITCGQVASSVSGSCIGYLRGTVPVPPSCNGVK
SLNKAATTADRQAACECLKKTSGSIPGLNPGLAAGLPGKCGVSPYKISTSTNCKAVK

>accession|ACI68103.1|Allergen Parvalbumin beta 1 [Salmo salar]
MACAHLCKEADIKTALEACKAADTFNFKTFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKFLFLQNFQCPKARELTDKAFKAGDADGDMIGIDEFAVLVKQ

>accession|ACJ04729.1|Allergen ovomucoid [Gallus gallus]
MAMAGVFLVLSFVLCGFLPDAVFGAEVDCSRFPNATDMEGKDVLCNKDLRPICGTDGVT
YTNDCLLCAYSVEFGTNIKEHDGECKETVPMNCSSYANTTSEDGKVMVLCNRAFNPVCG
TDGVTYDNECLLCAHKVEQASVDKRHDGGCRKELAAVSVDCSEYKPKDCTAEDRPLCGS
DNKTYGNKCNFCNAVVEENGLTTLTSHFGKC

>accession|ACJ23861.1|Putative Cas s 1 pollen allergen [Castanea sativa]
MGVFTTHESQETSVIPPARLFKAFVLDSDNLIPKVLPAQAIKSTEEIEGNGGPGTIKKITFG
EASKYKYSKHRIDALDPENCTYSFVIEGDVLTDIENVSTETKFWASPDGGTIMGSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK

>accession|ACJ23862.1|Putative Cas s 1 pollen allergen [Castanea sativa]
MGVFTTHESQETSVIPPARLFKAFVLDSDNLIPKVLPAQAIKSTEEIEGDGGPGTIKKITFG
EASKYKYSKHRIDALDPENCTYSFVIEGDVLTDIENVSTETKFWASPDGGTIMGSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK

>accession|ACJ23863.1|Putative Cas s 1 pollen allergen [Castanea sativa]
MGVFTTHESQETSVIPPARLFKAFVLDSDNLIPKVLPAQAIKSTEEIEGNGGPGTIKKITFG
EASKYKYSRHRIDALDPENCTYSFVIEGDVLTDIENVSTETKFWASPDGGTIMGSTTKY
QTKGDFQLKEEQVQAAIEKATGLFKAVEAYLLANPDLYK

>accession|ACJ23864.1|Allergen Fag s 1 pollen allergen [Fagus sylvatica]
MGVFTYSETTTTVITPARLFKAFVLDADNLIPKVAPQAIKSSEIEGSGGPGTIKKITFG
EGSQFNKVRIDEIDNANFTYACTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAHY

>accession|ACJ23865.1|Allergen Fag s 1 pollen allergen [Fagus sylvatica]
MGVFTYSETTTTVITPARLFKAFVLDADNLIPKVAPQAIKSSEIEGSGGPGTIKKITFG
EGSQFNKVRIDEIDNANFTYAYTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAHY

>accession|ACJ23866.1|Allergen Fag s 1 pollen allergen [Fagus sylvatica]
MGVFTYSETTTTVITPARLFKAFVLDADNLIPKVAPQAIKSSEIEGSGGPGTIKKITFG
EGSQFNKVRIDEIDNTNFTYACTLIEGDAISETLEKIAYEIKLVASPDGGSILKSTSK
YHTKGDHEIKEDQIKAGKEEASGIFKAVEAYLLANPAAHY

>accession|ACJ37389.1|Allergen Bla g 4 allergen [Blattella germanica]
VLALCATDTLANEDCFRHESLVPNLDYERFRGSWIIAAGTSEALTQYKCWIDRFSYDDAL
VSKYTDSQGNRTTIRGRTKFEGNKFTIDYNDKKGKAFSAPYSVLATDYENYAIVEGCPAA
ANGHVIYVQLRMTLRRFHPKLGDKEMLQHYTLDQVNQNKKAIEEDLKHFNLKYEDLHSTC
H

>accession|ACJ37391.1|Putative Per a 4 allergen variant 1 [Periplaneta
americana]
AGDDSCQIGTSFTGLDMTKYVGTWYELFRTPNSDEEDFTNCEYDKYTLDENGVIQVTSVA
YTNSIRGFITSTGTVPDWTEDTFDIAYGDEETWSSTYFMVGTDYQTYISIVAGCLDNDYSR
HLYWIASHETSFDATKAKVNEVLAPYNLSLDDMEPVDQSYCVQYKS

>accession|NP_001133181.1|Allergen fructose-bisphosphate aldolase A
[Salmo salar]
MPHAFPLTPDQKKELSDIALKIVAKGKILAADESTGSAKRFQSINTENTEENRRLYR
QLLFTADDRAGPCIGGVIFFHETLYQKTDAGKTFPEHVKSARGWVVGKVDKGVVPLAGTN
GETTTQGLDGLYERCAQYKKGDCDFAKWRCVLKITSTTPSRLAIMENCNVLARYASICQM
HGIVPIVEPEILPDGDHDLKRTQYVTEKVLAAAMYKALSDHHVYLEGTLKPNMVTAGHSC
SHKYTHQEIAMATVTALRRRTVPPAVPGVTFSLGGQSEEEASINLNVMNQCPLHRPWALTF
SYGRALQASALKAWGGKPGNGKAAQEEFIKRALANSLACQGYVASGDSAAAGDSLFFVAN
HAY

>accession|3EBW_A|Putative Chain A, Crystal Structure Of Major Allergens,
Per A 4 From Cockroaches [Periplaneta americana]
DDSCQIGTSFTGLDXTKYVGTWYELFRTPNSDEEDFTNCEYDKYTLDENGVIQVTSVAYT
NSIRGFITSTGTVPDWTEDTFDIAYGDEETWSSTYFXVGTDYQTYISIVAGCLDNDYSRHL
YWIASHETSFDATKAKVNEVLAPYNLSLDDXEPVDQSYCVQY

>accession|CAT99611.1|Putative thaumatin-like protein [Malus x
domestica]
ASRSVDAPSPWSGRLWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYDVSLLVDGFNLPMSVAPQGGTGECKPSSCPANVNMCPAQLQVKAADGQSVISC
KSACLAFGDSKYCCTPPNDTPETCPPEYSEIFEKQCP

>accession|CAT99612.1|Putative thaumatin-like protein [Malus x
domestica]
ASRSVDAPSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPPATLVEITIA
ANGGQDYDVSLLVDGFNLPYVAPQGGTGECKPSSCPANVNMCPAQLQVKAADGQSVISC
KSACLAFGDSKYCCTPPNDTPETCPPEYSEIFEKQCP

>accession|CAT99617.1|Allergen profilin [Malus x domestica]
MSWQAYVDDHLMCDIDGHHLTAAAILGHGDSVWAHSSTFPKFKPEEITAIMKDFDEPGSL
APTGLHLGGTKYMVIQGEAGAVIRGKKGSGGVTVKKTGQALVFGIYEETLTPGQCNMIVE
RLGDYLLIDQGV

>accession|CAT99618.1|Allergen profilin [Malus x domestica]
AQSATFPQLKPEEVTGMNEFNPEGSLAPTGLYFGGTYKYMVIPGEPGVVIRGKKGPGGVV
VKKSTMALLIGIYDEPM

>accession|CAT99619.1|Allergen profilin [Malus x domestica]
GNSLTAAAILGQDGSVWAQSATFPAPKPEEIAAILKDFDQPGTLAPTGLFLGGTKYMVIQ
GEPGAVIRGKKGSGGITIKKTSQALLIGIYDEPLTPGQCNIVVERLGDYLLIEQGL

>accession|ACK76291.1|Putative Der f 3 allergen [Dermatophagoides farinae]

MMILTIVVLLAANTWATPILPSSPNATIVGGVKAKAGDCPYQISLQSSSHFCGGSILDEY
RILTAHCVNGQSACKKLSIRYNTLKHASGGEKIQVAEIQHENYDSMTIDNDVALIKLKT
PMTLDQTNAPVPLPPQGSVDKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSCQGDSSGPPVVDIATKQIVGIVSWGYGCAKRGYP
GVYTRVGNFVDWIESKRSQ

>accession|ACK76292.1|Putative Der f 3 allergen [Dermatophagoides farinae]

MMILTIVVLLAANTWATPILPSSPNATIVGGVKAKAGDCPYQISLQSSSHFCGGSILDEY
WILTAHCVNGQSACKKLSIRYNTLKHASGGEKIQVAEIQHENYDSMTIDSVALIKLKT
PMTLDQTNAPVPLPPQGSVDKVGDKIRVSGWGYLQEGSYSLPSELQRVDIDVVSREQCD
QLYSKAGADVSENMICGGDVANGGVDSCQGDSSGPPVVDIATKQIVGIVSWGYGCAKRGYP
GVYTRVGNFVDWIESKRSQ

>accession|ACK76296.1|Putative Der f 6 allergen [Dermatophagoides farinae]

MIKIFLVTLIVITVTVDARFPRSLQPKWAYLDSNEFSRSKIGDSPIACVVGQDADLAE
APFQISLLKDYLIKMSHMCGLISESTVVTAHCTYQGKASSLSVRYGTNQRRTSSSYGD
LKVKTIIQHESYDPDTIQNDISLLILSKPVVSTNVRMIEIETDDIVDGDKVTIYGWGLT
DGNGKDLDPKQLQKGSMTIVGNDRCNEKWGSINAIHPGMICALDKTQSGCNGDSSGGLVSA
NRKLTGIVSWGPSKCPPGEYMSVFTRPKYYLDWITKNIV

>accession|ACK76297.1|Putative Der f 6 allergen [Dermatophagoides farinae]

MIKIFLVTLIVITVTVDARFPRSLQPKWAYLDSNEFSRSKIGDSPIAGVVGQDADLAE
APFQISLLKDYLIKMSHMCGLISESTVVTAHCTYQGKASSLSVRYGTNQRRTSSSYGD
LKVKTIIQHESYDPDTIQNDISLLILSKPVVSTNVQMIETDDIVDGDKVTIYGWGLT
DGNGKDLDPKQLQKGSMTIVGNDRCNEKWGSIDAIHPGMICALDKTQSGCNGDSSGGLVSA
NRKLTGIVSWGPSKCPPGEYMSVFTRPKYYLDWITKNIV

>accession|ACK76299.1|Allergen Der f 7 allergen [Dermatophagoides farinae]

MMKFLLIAAVAFVAVSADPIHYDKITEEINKAIDDAIAAAIEQSETIDPMKVPDHADKFER
HVGILDFKGEAMRNIEARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSDVLTAFQDQTVRKEMTKVLAPAFKRELEKN

>accession|BAH09387.1|Allergen allergen [Arthroderma vanbreuseghemii]

MAAAKWLIASLAFASSGLAFTPEDFISAPRRGEAIPDPKGELAVFHVSKYNFDKDRPSG
WLLNLKNGDISVLTTSDVSEITWLGDKTKIVYVNGTDSVKGGVGIWISDAKNFGNAYK
AGSVNGAFSGLKLAESGDKINFGYQSTTKGDLYNEAAAKEAVSSARIYDSLFRHWDT
YVGTQFNAVFSGALTKSGDKYSFDGKLNLVHPVKYAESPPYPPFGGSGDYDLSSDGKTV
FMSKAPLPAKANTTTTYIFVVPDGRVAEPINKRNGRTPQGIEGASSSPVFSKGRRI
AYLQMATKNYESDRRVIYIAEVGSNKPVQRIASNWDRSPEVVKWSSDGRITLYVTAEDHAT
GKLFITLADARDSHKPAVVKHDSVSSFFYFVGSKSVLISGNSLWSNALFQVATPGRPNR
KLFYANEHDPKGLGPNIDIEPLWVDGARTKIHSWIVKPTGFDKNKVYPLAFLIHGGPQG
SWGDSWSTRWNPRVWADQGYVVAPNPTGSTGFGQKLTDDITNDWGGAPYKDLVKIWEHV
RDHIKYIDTDNGIAAGASFGGFMVNWIIQGHDLGRKFKALVSHDGTFFVGSKIGTDELFFI
EHDFTNGTFFEARQNYDRWDCSKPELVAKWSTPQLVIHNDDFRLSVAEGVGLFNVLQEK
IPSRFLNFPDETHVWTKPENSLVWHQQVLGWINKWSGINKSNPKSIKLSDCPIEVVDHEA
HSYFDY

>accession|BAH10157.1|Putative tropomyosin [*Venerupis philippinarum*]
MDAIKKKMQAMKLEKENALDKAEQLEQKLRDVEETKAKAEEDLTLQKKYTNLENEFDQV
NEKYNEGVNKLEVSEKRVTEAEDEIKGYTRRIQLLEDDLERTQVKLDEATSKLEDATKTA
DESERGRKVLESRSIADDDRIDALEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERSE
TRLEAAEAKITELSEELAVVGNNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLEDELLAEKEKYKAISDELDTQTFFAELAGM

>accession|BAH10148.1|Putative tropomyosin [*Haliotis discus discus*]
MDAIKKKMLAMKMEKENAVDRAEQNEQKLRDTEEQKAKIEEDLNNLQKKCANLENDFDNV
NEQLQEAMAKLETSEKRVTEMEQEVSGTTRKITLLEEDLERNEERLQTATERLEEASKAA
DESERGRKVLESRSIADDDRIDQLEAQLKEAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLEDELLAEKEKYKAISDELDTQTFFAELAGY

>accession|BAH10149.1|Putative tropomyosin [*Batillus cornutus*]
MDAIKKKMLAMKMEKENALDRAEQLEQKLRDTEEQKAKIEEDLNNLQKKCANLENDFDNV
NEQLQDALSLENSEKRVTEMEQEVSGTTRKITLLEEDLERNEEGLQTATERLEEASKAA
NESERGLADDERIDQLEAQLKEAKYIAEDAKYIAEDAERKYDEAARKLAITEVDLERAE
ARLEAAEAKILELEEEELKVVGNMKSLEISEQEASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLEDELLAEKEKYKAISDELDTQTFFAELAGY

>accession|BAH10150.1|Putative tropomyosin [*Neptunea polycostata*]
MDLIKKKMLSMKMDKENALDRADVMEQKFRDAEDQKSKLEDDLNNLQKKYSQLENEFDRV
NEGLLDANAKLETQDKRVNEMEQEISGLNRRIQLEEDLERSEERLQTATEKLEEATKAA
DESERARKVLESKNQTAESADSLEAQLKESKYIAEDAERKYDEAARKLAITEIDLERA
TRLEAAEAKCYELDEQLHVGNINIKTLSIQNDQASQREDSYEETIRDLTQRLKDAENRAQ
EAERTVTKLQKEVDRLEDELLAEKERYKNISDELDTQTFFAELAGY

>accession|BAH10151.1|Putative tropomyosin [*Scapharca broughtonii*]
MDSIKKKMIAMKMEKENALDRSEQLEQKLRDTEEQKAKVEEELGAYQKKFSILENDFDTV
NTKWEDASVKLEEAEEKLSESEQEIASLTRKTTLLEDDIAKNEEKLMSATQKLEEASHAA
DESERGRKVLESRSFADDERIDALEAQLKEAKYIAEDADRKYDEAARKLAITEVDLERAE
ARLEAAEAKIIELEEEELTVVGANIKTLQVQNDQASQREDSYEETIRDLTANLKDAENRAT
EAERTVSKLQKEVDRLEDELLAEKERYKAISDELDTQTFFAELAGY

>accession|BAH10152.1|Putative tropomyosin [*Crassostrea gigas*]
MDSIKKKMIAMKMEKENAQDRAEQLEQQLRDTEEQKAKIEEDLTLQKKHSNLENEFDTV
NEKYQECQTKLEEAETASEAEQEIQSLNRRIQLEEDMERSEERLQTATEKLEEASKAA
DESERNRNVLENLNNASEERTDVLEKQLTEAKLIAEEADKKYDEAARKLAITEVDLERAE
ARLEAAEAKVYEEELQSVVANNIKTLQVQNDQASQREDSYEETIRDLTQRLKDAENRAT
EAERTVSKLQKEVDRLEDELLAEKERYKAISDELDTQTFFAELAGY

>accession|BAH10153.1|Putative tropomyosin [*Fulvia mutica*]
MEAIKKKMQSMKNEKENAIDKAEQLEIKLKDTEDESKAKIEEDLTLQKKYTNLENEFDQV
NEKHADSVAKLEAAEKRLTETEDEIKGYTRKIQLLEDDLERTQTKLDEATGKLEEATKSA
DESERGRKVLESRSIADDDRIDGLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKIVELTEELSVVGNLKLQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVIKQKEVDRLEDELLQEKYKQISDELDTQTFFAELAGM

>accession|BAH10154.1|Putative tropomyosin [*Pseudocardium sachalinensis*]
MDSIKKKMQAMKIEKENALDKSEQLDQKLDVEETKAKVEEDLSSLQKKYTNLENEFDKV
NEQYNESVVKLEASEKRVTECEDEIKGYTRRIQLLEDDLERTQVKLDEALLKLEDATKTA
DESERGRKVLESRSIADDDRIDGLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELSVVANNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA

EAERVVNKLQKEVDRLDEDELLAEKEKYKTISDELDQTFFAELAGM

>accession|BAH10155.1|Putative tropomyosin [Tresus keenae]
MDSIKKKMQAMKIEKENALDKAEQLDQKLDKTEDSKAKIEEDLSSLQKKYTNLENEFDQV
NEKYNDGVVKLESSEKRVTECEDEIKGYTRRIQLLEDDLERTQVKLEEATLKLEDATKTA
DESERGRKVLERSIADDDRIDQLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELSVVANNCKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAS
EAERVVNKLQKEVDRLDEDELLAEKEKYKQISDELDQTFFAELAGM

>accession|BAH10156.1|Putative tropomyosin [Solen strictus]
MDSIKKKMQAMKLEKENALDKSEQLEQKLDKTEDSKARAEEDLSSLQKKFTNLENEFDKV
NEQYQEGVIKLEASEKRVTECEDEIKGFTRRIQLLEDDLERTQAKLDEALLKLEDASKTA
DESERGRKVLERSIADDDRIDQLEKQVKDAKYVAEEADRKYDEAARKLAITEVDLERAE
TRLEAAEAKITELSEELQVVGNNNSKALQNAVDQASQREDSYEETIRDLTQRLKDAENRAA
EAERVVNKLQKEVDRLDEDELLAEKEKYKQISDELDQTFFAELAGM

>accession|ACL36923.1|Putative troponin C [Tyrophagus putrescentiae]
MSVEELSKEQVQMLRKAFFDMFDRDKKGYIHTNMVSTILRTLQGTFEENDLQQLIIEIDAD
GSGELEFDEFLLTLTARFLVEEDTEAMQEELREAFRMYDKEGNGYIPTALREILRALDDK
LTEDELDEMI AEIDTDGSGTVDFDEFMEMMTGD

>accession|ACM24358.1|Putative arginine kinase [Blattella germanica]
MVDAAVLEKLEAGFAKLAASDSKSLKLYLTKEVFDNLKTKKTPSFGSTLLDVIQSGLEN
HDSGVGIYAPDAEAYAVFADLFDPIIEDYHGGFKKTDKHPKDWGDVDTLGNLDPAGEYI
ISTRVRCGRSMQGYFPNCLTEAQYKEMEDKVSSTLSGLEAELKGQFYPLTGMTKEVQQK
LIDDFLFLKEGDRFLQAANACRFWPTGRGIYHNDAKTFLVWCNEEDHLRIISMQMGDGLG
QVYRRLVTAVNDIEKRIPFSDHDDLGLFTFCPTNLGTTVRASVHIKVPKLAADKAKLEEV
AGKYNLQVRGTRGEHTEAEGGVYDISNKRRMGLTEYDAVKEMNDGIAELIKLESSL

>accession|CAR48256.1|Putative beta-parvalbumin [Xiphias gladius]
MAFAGVLSADVAALAEACKDAGTFDYKKFFKSCGLAAKSTDDVKKAFAIIDQDKSGFIE
EDELKFLFLQNFKAAARPLTDAETEAFLKAGSDSDGDKIGAEFFAALVTA

>accession|3F5V_B|Allergen Chain B, C2 Crystal Form Of Mite Allergen Der
P 1 [Dermatophagoides pteronyssinus]
TNAC SINGNAPAEIDL RQMRTVTP I RMQGGCGSXWAFSGVAATESAYL AYRQQLDLAEQ
ELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYRYVAREQSCRRPNAQRFGISNYCQIY
PPNANKIREALAQTHSAIAVIIGIKDLDAFRHYDGR TIIQRDNGYQPNYHAVNIVGYSNA
QGVDYWI VRNSWDTNWGDNGYGYFAANIDLMMIEEYPYVIL

>accession|ACM89179.1|Allergen sarcoplasmic calcium-binding protein
[Litopenaeus vannamei]
MAYSWDNRVKYVVRMYDIDNNGFLDKNDFECLAVRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDGEVTVDFEKQAVQKHCQGGKYGDFPGAFKVFIANQFKAIDVNGDGK
VGLDEYRLDCITRSFAFAEVKEIDDAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPDESC
SACYLFGPLKVVQ

>accession|ACN32322.1|Putative tropomyosin [Ascaris lumbricoides]
MDAIKKKMQAMKIEKDNALDRADAAEEKVRQMTDKLERIEEELRDTQKKMMQTENDLKA
QEDLSVANSNLEEKKEKVVQEAEEVAALNRRMTLLEEELERAEERLKLATEKLEEATHA
DESERVKVMENRSFQDEERANTVESQLKEAQLAEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEEELRVVGNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLDEDELVHEKERYKSISEELDQTFQELSGYRS

>accession|3C3V_A|Allergen Chain A, Crystal Structure Of Peanut Major Allergen Ara H 3 [Arachis hypogaea]
ISFRQQPEENACQFQRLNAQRPNRIESEGGYIETWNPNNQEFECAGVALSRLVLRNAL
RRPFYSNAPQEIFIQQGRGYFGLIFPGCPSTYEEPAQQGRRYQSQRPPRRLQEEDQSQQQ
QDSHQKVHRFNEGDLIAVPTGVAFWLYNDHDTDVVAVSLTDTNNNDNQLDQFPRRFNLAG
NHEQEFLRYQQQSRQSRRRSLPYSYSPQSQPRQEEREFSPRGQHSRRERAGQEEHEGG
NIFSGFTPEFLAQAFQVDDRQIVQNLRGENESEEQGAIIVTVRGGLRILSPDRKRGADEEE
EYDEDEYEYDEEDRRRGRGSRGSGNGIEETICTATVKKNIGRNRSPDIYNPQAGSLKTAN
ELNLLILRWLGLSAEYGNLYRNALFVPHYNTNAHSIIYALRGRAHVQVVDSSNGNRVYDEE
LQEGHVLVVPQNFVAVAGKSQSDNFYVAFKTDSPSIANLAGENSVIDNLPPEVVANSYG
LPREQARQLKNNNPFKFFVPPSQSPRAVA

>accession|ACN62248.1|Allergen Ara h 2.01 allergen [Arachis hypogaea]
MLTILVALALFLLAAHASARQQWELQGDRCQSQLERANLRPCEQHLMQKIQRDEDSYER
DPYSPSQDPYSPSPYDRRGAGSSQHQCRCNELNEFENNQRCMCEALQQIMENQSDRLQG
RQQEQQFKRELRLNPQQCGLRAPQRCDLDVESGGRDRY

>accession|ACN87223.1|Putative tropomyosin [Procambarus clarkii]
MDAIKKKMQATKLEKDNAMDRADTLEQQNKEANIRAIEKAEVHNLQKRMQHLENDLDQV
QESLLKANTQLEEKDKAISNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLDEDELVNEKEKYKSITDELDTFSELTGY

>accession|ACO34813.1|Putative Sal k 1 pollen allergen [Salsola kali]
QLIPPNAELESWFQGAVKPVSEQKGLEPSVVQAESGGVETIEVRQDGSQKFKTISDAVK
HVKVGNTKRVIITIGPGEYREKVKIERLHPYITLYGIDPKNRPTITFAGTAAEFQTVDSA
TLIVESDYFVGANLIVSNSAPRPDGRKGAQASALRISGDRAAFYNCKFTGFQDQDVCDDK
GNHLFKDCYIEGTVDVDFIGEARSLYLNTELVVPGDPMAMITAHARKNADGVGGYSFVHC
KVTGTGGTALLGRAWFEEAARVVFVSYCNLSDAVKPEGWSDNNKPAAQKTIFFGYKNTGPG
AAADKRVPTYTKQLTEADAKTFTSLEYIEAAKWLPPPPKV

>accession|ACO34814.1|Allergen Sal k 3 pollen allergen [Salsola kali]
MASHVVGYPKRELKFALESFWDGKSSAEDLKKVAADLRSSIWQMADAGIKYIPSN
TFAYYDQVLDTTAMLGAVPARYGFNGGEIGFDLYFSMARGNASLPAMEMTKWFDNYHYI
VPELGPEVKFAYSSHKAVDEYKEAKALGVDTVPVVLVGPVSYLLLSKAAKGVKESFPLLSL
LPKILPVYKEVIAELKAAGASTIQFDEPTLVMDLESHQLKAFTDAYADLESTLSGLNVLV
ETYFADLTPEAYKTLVSLNGVTAFGFDLVRGKTLDLKSFGFSGKYLFAGVVDGRNIWA
NDLAASLTLQSLSEIVGDKLVVSTSCSLHTAVDLVNETKLDDEIKSWLAFAAQKQVLE
VNALAKALAGQKDEAFFSANAAALASRKSSPRVTNEAVQKAAAGLKGSDHRRATTVSARL
DAQQKLNLPVLPPTTIGSFPQTVELRRVRREYKAKKISEEYVKAIEEISKVVKLQEE
LDIDVLVHGEPERNDMVEYFGEQLSGFAFTVNGWVQSYGSRVCKPPIIYGDVSRPKAMTV
FWSSLAQSMTSRPMKGMTGPVTILNWSFVRNDQPRHETCYQIALAIEDEAEDLEKAGIN
VIQIDEAALREGLPLRKS GHGFYLQWAVHSFRITNVGIQDQTTQIHTHMCYSNFNDI IHSI
IDMDADVITIENSRSDEKLLSVFREGVKYAGIGPGVYDIHSPRIPPTTEELADRIRKMLA
VLESNVLVWNPDCGLKTRKYNEVNPALS NMVYAAKPI

>accession|CAX32963.1|Allergen parvalbumin [Gallus gallus]
MAMTDVLSAEDIKAVGAFSAAESFNKFFEMVGLKSKSPEDVKKVFHILDKDRSGFIE
EELKVFVLKGFTPDGRDLSDKETKALLAAGDKDGDGKIGADEFATMVAES

>accession|ACO56333.1|Allergen 2S albumin [Corylus avellana]
MARLATLAALFAALLLVAAHAAFRTTITTVDDVEDIVNQQRGESCRESQAQRQNLNQC
QRYMRQSQYGSYDGSNQQQQEQLEQCCQLRQMDERCRCEGLRQAVMQQQGEMRGEEMR

EVMETARDLPNQCRLSPQRCEIRSARF

>accession|ACP43298.1|Allergen Ama r 2 pollen allergen [Amaranthus retroflexus]
MSWQAYVDDHLMCEIEGTTNHLTGAAILGLDGSVWAQSADFPQFKPDEIAAIVEDFDEPG
TLAPTGLHLGGTKYMQGEPGAVIRGKKGAGGICVKKTGQALVMGIYDEPVTTPGQCENMI
VERLGDYLIEQGY

>accession|BAH59276.1|Putative cochineal major allergen [Protortonia cacti]
MPVRMLFSILISLILVSVVVGNEHYPKVSPAQFSAAFHGYELPQKEGRADEVDSNEVKFY
LYTRQNLHKYELHTGYNCNSYESLRNSTYNVRKETKFLIHAWTQSPKDINDIYIYLYA
ENNVNIMVDWSMYSQTCNYNSTSYVVIKPAKALSDLMKLLTGYGAVPQKNFHVIGFLHG
AHIAGIAGKYISPLRISRISGLDPVGYNIDGTALPVLQNGDADFIDVIYTSIEYYGTQRQ
IGDLSFYPRGTHPQKQCPDPNEWVCSALASIKYWRESITSPTAFSAIRCDNYVQYHES
RCPGPNTTMEYASRNAPFGKYLLNTNPEPPYSQS

>accession|ACR43473.1|Putative tropomyosin [Crangon crangon]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFSLQKRMQOLENDLDSV
QEALLKANAHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKVLENRSLSDERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|ACR43474.1|Putative arginine kinase [Crangon crangon]
MVDAEVLEKLEAGYKLEAATDCKSLLKYLTKEVFDELKTKKTALGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFAPLFDPIIEDYHVGFKQSDKHPGKDFGDLEKFNVDPEGTFV
VSTRVRCGRSMEGYFPNCLTEAQYKEMESKVSSTLSSLEGELKGTYYPLTGMSKDVQQK
LIDDFLFLKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGDGLG
QVFRRLTSAVNEIEKRIPFSHDRLGFLTFCTNLGTTVRASVHIKLPKLAANRDKLESV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRMRGLTEFQAVKEMQDGIPEIKMEKEM

>accession|ACR43475.1|Putative sarcoplasmic calcium-binding protein [Crangon crangon]
MAYTWDNRVKYVVRMYDIDNNGFLDKNDFECLAVKNTLIECRGEWSAEKYAANQKIMSN
LWNEIAELADFNKDG EVTVEEFKQAVQKHCNGKPF GDFPSAFKTFIANQFKTIDVNGDGL
VGVDEYRLDCISRSAFSCIKEIDDAYNLLCTEEDK KAGGINIARYQELYAQFISNPDEKC
NAVYLFGLPEVV

>accession|ACR43476.1|Putative triosephosphate isomerase [Crangon crangon]
MSGSRKFFVGGNWKMNKDAAIDGIVDFMCKGPLNPNTTEVVVGCPCYLSYTREKLPAEI
GVAAQNCYKVAKGAFTGEISPAMVKDCGCEWVILGHSERRNVFNPDQLISEKVGHALEA
GLKVIPCIGEKLDERESNRTEEVVFAQMKALVPNISDWSRVVIAYEPVWAIGTGKTASPE
QAQDVHAKLRQWL TENVSAEVAESCRIIYGGSVSPSNCAELAKMGDIDGFLVGGASLKP
D FVTIINARG

>accession|ACR43477.1|Putative myosin light chain [Crangon crangon]
MAADLSARDVERVKFAFSIYDFEGNGQIDAFYIGDCLRALNLP TLALIAKLGGETKRKE
KMIKLDLDFMPLFAQVKKDKDAGSYEDFIEVLKLYDKAENGTMMYAELEHILLSLGERLDK
AELEPILRECCPPEDDEGLIPFEPFVKKLTQLL

>accession|ACR43478.1|Putative troponin C [Crangon crangon]
MDSLEPDQIDALKKAFDSFDTENQGFITADTVATILRMMGVKISDKNLAEVIAETDEDGS

GQLEFEFVLDLSSKFLIEEDEEALKAELREAFRIYDKEGQGFITTDVLKEILTEIDNKLTPEDLDGIIEEVDEDEGSGTLDLDFDEFMEMMSG

>accession|ACR77509.1|Allergen Che a 2 pollen allergen [Chenopodium album]

MSWQTYVDDHLMFPIIETGNHLTAAAIIVGLDGSVWAQSSTFPQLKQEEVKAICNEFDVFN
TLAPTGLFLGGEKYMVIQGEPAVIRGKKGGPGVCIKKTNQALVFGIYNPVTTPGQCNMV
VEKLG DYLV EQGM

>accession|ACS14052.1|Allergen tropomyosin [Periplaneta americana]

MDAIKKMQAMKLEKDNAMDRALLCEQQARDANLRAEKAEFEARSLOKKTQOIENDLDQT
MEQLMQVNAKLDEKDKALQNAESEVAALNRRIQLLEEDLERSEERLATATAKLAEASQAD
DESERARKILESKGLADEERMDALENQLKEARFMAEEADKKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANLREEEYKQIQIKTLTTRRLKEAEARAE
FAERSVQKLQKEVDRLEDELVHEKEKYKFCDDLDMTFTTELVGY

>accession|ACS34771.1|Allergen Sal k 4 pollen allergen [Salsola kali]

MSWQTYVDDHLMCEIEGTNNHLTAAAILGVDGSVWAQSANFPQFKPDEISAVVKEFDEAG
TLAPTGLHLGGTKYMVIQGEAGQVIRGKKGGPGGICVKKTGQALIFGIYDEPVTTPGQCNMI
VERLGDYLV EQGM

>accession|CAQ72968.1|Putative parvalbumin [Sebastes marinus]

MALAASLNAADITAALAACSGVDTFKHKDFFGKVGLSAKSADDIKNAFKVIDQDKSGFIE
EEELKLF LQNF SATARALTEAETTAFLKAGDSDGDGMIGMDEFAAMVKG

>accession|CAQ72969.1|Putative parvalbumin [Sebastes marinus]

MAFASVGLKDADIAAALDGCKDAGKFNHKTFFKTCGLSGKSSDEVKKAFAIIDQDISGFI
EEEEKLF LQNF KAGARALSDAETKEFLKAGDSDGDGKIGADEWAAMVKQ

>accession|CAQ72970.1|Putative parvalbumin [Clupea harengus]

MALASLLKGADIDAALKACEAKDSFKHKDFFAKIGLATKSAADLKKAFEIIDQDKSGFIE
EEELKLF LQNF KAGARALTD AETKAF LKAGDADGDGMIGVDEF AVMIKP

>accession|CAQ72971.1|Putative parvalbumin [Clupea harengus]

MAFAGLLSDADIAAALGACTAADTFDHKSFFKVKVGLSGKSADDVKKPFYIIDQDKSGFIE
EEELKLF LQNF KAGARALSDKETKAF LAAGDADGDGMIGVDEF AVMVKAR

>accession|CAQ72972.1|Putative parvalbumin [Clupea harengus]

MAFAAFLKEADITAALGACKGADSFDHKAFFAKVGLKKGKSGDELKKAFEIIDQDKSGFIE
EEELKLF LQNF CKGARALTDGETKKFLKAGDSDNDGKIGIDEFAALINH

>accession|CAZ76054.1|Putative glyceraldehyde-3-phosphate dehydrogenase [Triticum aestivum]

MGKIKIGINGFGRIGRLVARVALQSDDVELVAVNDPFIITTEYMTYMFKYD TVHGHWKHSD
IKLKDDKTLLFGEKPVTVFVGRNPEEIPWGEAGADYVVESTGVFTDKDKAAAHLKGGAKK
VVISAPSKDAPMFVGVNEDKYTSDVNIVSNASCTTNCLAPLAKIINDNFGIIEGLMTTV
HAITATQKTVDGPSSKDWRRGGRASFNIIIPSSTGAAKAVGKVLPELNGKLTGMSFRVPTV
DVSVDLTVRTEKAASYDDIKKAIKAASEGKLGIMGYVEEDLVSTDFVGDSSRSIFDAK
AGIALNDHFVKLVSWYDNEWGYSNRVVDLIRHMAKTQ

>accession|CAZ76052.1|Allergen alpha amylase inhibitor CM1 [Triticum aestivum]

TGPYCYAGMGLPINPLEGCREYVAQQTGCGISISGSAVSTEPGNTPRDRCKELYDASQHC
RCEAVRYFIGRRSDPNSSVLKDLPGCPREPQRDFAKVLVTPGHCVMTVHNAPYCLGLDI

>accession|ACT37324.1|Putative SchS21 protein, partial [Stachybotrys chartarum]

ASVTFWTLDNVDRTLVTGNGPSAAIETITVGAENTTVEFPGSWVGNWYAYPTDAEDVP
GMLGEVQFGGWNLTYFDVSAIVNPTDHDNVKQMWPAESRKPMSCGEVFPDNDAYWLPDD
IQTKVTHEVDLWTTLGAGSTGLTF

>accession|CAQ68249.1|Allergen Der p 2 allergen precursor [Dermatophagoides pteronyssinus]

DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEAVFEANQNSKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNVVKIAPKSENVVTVKVMGDNGVLACA
IATHAKIRD

>accession|CAQ68250.1|Allergen Der p 1 allergen precursor [Dermatophagoides pteronyssinus]

RPSSIKTFEEYKKA FNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSLDEFKNR
FLMSAEAFEHLKTQFDLNAETNACSINGNAPAEIDL RQMRVTPIRMQGGCGSCWAFSGV
AATESAYLAYRNQSLDLAEQELVDCASQHGCGNDTIPRGIEYIQHNGVVQESYYRYVARE
QSCRPNQAQRFGISNYCQIYPPNANKIREALAQTHSAIAVIGIKDLDAFRHYDGRITIQ
RDNGYQPNYHAVNIVGYSNAQGVYDVIWRNSWDTNWGDNGYGYFAANIDLMMIEEYPYV
IL

>accession|ACV04796.1|Allergen stalk non-specific lipid-transfer protein 1 [Apium graveolens]

MGVSKVAIAVAVMLMVVINHPAVVEGLTCGQVTGKLGGLGYLKG GYPSPACCGGVKG
LNSLAKTPADRKQACACLKTLGASVKGINYGAASALPGKCGIRIPYPI SPSTDCSRVN

>accession|BAD74060.2|Allergen group 2 allergen [Dermatophagoides farinae]

MISKILCLSLVAAVVADQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPF TLEALFDA
NQNTKTAKIEIKASLDGLEIDVPGIDTNACHFMKCPLVKGQQYDAKYTWNVVKIAPKSEN
VVVTVKLVGDNGVLACAIATHGKIRD

>accession|ACV04860.1|Putative glutathione S-transferase Blo t 8 isoform [Blomia tropicalis]

MAPLKIGYWDVRGFAEPIRMLLKHNLNIEFEETRYGFGNDSEESLPNRDEWLAEKFTLGLG
FPNLPYLFDGDFKMTESVAIKRLARANGMIATTEPALSYSSEMIAMIIDIRNRLINVVY
AENSGTPEEFQKLDLRLERLETSLGQLEAFFQKHGSQWVAGDKLTYVDFLAYERLDWYR
VFKSTPIFEKFAKVSDYMKRFEELPSLKEYIARDEHRSASCLSPFARIGHRWAKE

>accession|3EHK_A|Putative Chain A, Crystal Structure Of Pru Du Amandin, An Allergenic Protein From Prunus Dulcis [Prunus dulcis]

ARQSQLSPQNQCQLNQLQAREPDNRIQAEAGQIETWNFNQGDFQCAGVAASRITIQRNGL
HLPSYSNAPQLIYIVQGRGVLGAVFSGCPETFEESQSSSQGRQEQEQEQEQEQEQEQEQEQ
RQQGQQEQEQEQEQGRQQGRQQQEEGRQQEQEQEQEQGRPQQQQQFRQLDRHQKTRRIREGD
VVAIPAGVAYWSYNDGDQELVAVNLFHVSSDHNLQDQNP RKFYLAGNPENEFNQGGQSQP
RQQGEQGRPGHQHQPFRGRPRQEQEQGNGN VVFSGFNTQLLAQALNVNEETARNLQGQNDN
RNQIIQVRGNLDFVQPPRGRQEREHEERQQEQEQEQEQEQEQEQEQEQEQEQEQEQEQEQEQ
NIGNPERADIFSPRAGRISTLN SHNLPILRFLRLSAERGFYRNGIYSPHWNVNAHSVVY
VIRGNARVQVNVNENGDAILDQEVQQGQLFIVPQNHGVIQQAGNQGF EYFAFKTEENAFIN
TLGRTSFLRALPDEVLANAYQISREQARQLKYNRQETIALSSSQRRRAVV

>accession|ACY01951.1|Putative putative Cup a 4 allergen [Cupressus arizonica]

MDEVPSDESKSASSGKRVLEQSVHELEEVFKKFDANGDGKISGSELADILRSMGSEVDE
AEVKAMMEEADTDGDGYVSLQEFVDLNIKGATVKDLKNAFKVDRDCNGTISPAELCETL
KSVGEPCTIEESKNI IHNVDKNGDGLINVEEFQTMMTSEM TDKSK

>accession|ACY38525.1|Putative allergen Can f 4 precursor [Canis lupus familiaris]

MKILLCLALVLASDAQPLPNVLTQVSGPWKTLYISSNNLDKIGDNGPFRIYMRGINVD
IPRLKMSFNFYVKVDGECVENS VGASIGRDNLIKGEYNGGNYFRIIDMTPNALIGYDVNV
DSKGKITKVALLMGRGAHVNEEDIAKFKKLSREKGIPEENIIYLGDTDNCPNHE

>accession|ACY40650.1|Putative allergen Bla g 3 isoform 1 precursor [Blattella germanica]

IPADKVFLRKQWDVLRVLRVHR IHQHSIIPEQVTVGDSYDIEANINNYKNPRVVKNFMALYK
KDPVGRGEPFSTYYIKHREQAIMLFELFYANDYDTFYKTACWARDRVNEG MFLYSFNIA
IMHREDMQDIVIPAFYEIYPFLFVENDVIQKAYDYKMKESGHLNPHTHVIPVNF TLRNQ
EQLLSYFTEDVFLNANFTYFRYMYPTWFNYTKYEYDVPRHGEQFYFYQQIYARYMLERY
SNDMPDIKPFYTNKAFKTPYNPQLRYPNGQEV PARPAYMVPQDFDLYVSDIKNYERRVA
DAIDFGYVFCDKMISHSLYNDKKGFEMLAEIEGNSMHPDYGHIFHMYRSL LGHVTDPF
HKNGEAPSALEHPETALRDPAFYQIWKR VQHYFYKFMKLPYYTREELTFDGVKIDNVDV
GKLYTYFEPYEMSLGYSVKVENIQDAANVDIRARNYRLNHKPFYTYNIEVTSEKETPVYVR
VFLGPKYNYGHEYDLNERRNKFVEIDRFPYQLHAGKNAIERN SHESTVVAKEQDTPKVL
YKKVNEAYEGKATYNYDKQTKFCGLPEHLLIPKGGKGGQAF TVYVIVTPYDKAVEKEEHH
FKAYSYCGVGPHTYPPDDKPLGFPFDRPIHSYDFVTPNMF MKDVFIFHKKYEEVEQH

>accession|ACY40651.1|Putative allergen Bla g 3 isoform 2 precursor [Blattella germanica]

IPADKVFLRKQWDVLRVLRVHR IHQHSIIPEQVTVGDSYDIEANINNYKNPRVVKNFMALYK
KDPVGRGEPFSTYYIKHREQAIMLFELFYANDYDTFYKTACWARDRVNEG MFLYSFNIA
IMHREDMQDIVVPAFYEIYPFLFVENDVIQKAYDYKMKESGHLNPHTHVIPVNF TLRNQ
EQLLSYFTEDVFLNANFTYFRYMYPTWFNYTKYEYDVPRHGEQFYFYNQMFARYMLERY
SNDMPDIQPFYTYTKPFKTPYNPQLRYPNGQEV PARPAYMMPQDFDLMYVSDIKNYEK RVA
DAVDFGYVFCDKMISHSLYNNKGLEWLGQIVEGNSMHPDFYGHIFHMYRSL LGHITDPF
HKHGVAPSALEHPETSLRDPAFYQIWKR VQHYFNKFMKQPYYTREELAFDGVKIDNVDV
GKLYTYFEPYEMGLSNAVKGKLEDV PNVDIRARNYRLNHKPFYTYNVEVTSEKDTPVYVR
VFLGPKYNYGHEYDLNERRNYFVEIDRFPYQLHTGKNTIQRNSHDSSVVAQE QD TYKVL
YKKVNEAYEGKTTTYTEYKQDKYCGLEHLLIPKGGKGGQAF TVYVIVTPYDKAVEKEEHH
FKAYSYCGVGP HDSVYDKKPLGFPFDRPIHSYDFVTPNMF MKDVFIFHKKYEEVEQH

>accession|ACY91851.1|Allergen beta-1,3-glucanase form 'RRII Gln 2' [Hevea brasiliensis]

MAICSSTSGTSSSLPSRTTVMLLLFFFTASVGITDAQVGV CYGMQGNNLPPVSEVIALYK
KSNITRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSV
RFRYIAVGNEISPVNRTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVST AIDLTLVGNSY
PPSAGAFRDDVRSYLNPIIRFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEV VVSESGWPSAGAF AATFDNGRTYLSNLI
QHVKRGTPKRPKRAIETYLFAMFDENKKQPEVEKHFGLFFPNKWQKYNLNFSAEKNWDIS
TEHNATILFLKSDM

>accession|ACZ57582.1|Putative Ole e 11.0101 allergen precursor [Olea europaea]

MSCIAVEAVLLGILLYIPIVLSDDRAPIPSNSAQLNSWFDGIIQPVA VRKATMDPALVTA
EGQTKVIKLSGSGDFKSINEAIKSI PDDNTRKRVILSLAPGNYSEKVKIGMYKH YITFY
GEDPNMPILVFGGTA AEYGTVDSATLIVESNYFSAVNLKIVNSAPRPD GKRVGAAQAAAL
RISGDKASFYNVKIYGFQDTL CDDKGGKHFYKDCYIEGTVDVDFIFGSGKSIFLNTELHAVPG

DQPAIITAQARKTDESDTGYFVNCRVTTGGGAFLGRSWMPAAKVVVFAYTEMVDAIHPEGW
ILVKPEHESTVRFSEYNNKGPANMEKRAKRVKRLSDAEAKQSIISLGSIEASKWLLPPRV
VGLP

>accession|ACZ74626.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAMLSSTRTTGSLLSRTFVMLLLILYIASLGITDAQVGVVGYGKLGNNLPPASEVIALYK
QSNIKRMRIYDPNQEVQLALRGSNIELILGVPNSDLQSLTNPNSANSWVQKNVRDFWSSV
RLRYIAVGNIEISPVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAIIDLTLMGNTY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYAGNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSSLEVVVSESGWPSAGAFATFDNGRTYLSNLI
QHVKGGTPKRPDRAIETYLFAFMDENQKQPEVEKHFGLFFPDKRPHYNLNFSAKKNWDIS
TEHNATVLFLLKSDM

>accession|ACZ95445.1|Putative Anis s 10 allergen precursor [Anisakis
simplex]
MHLITALVLLLQLIHFITSSPIPQEVVGGPGPVVGGSGIGNVWEKANEQAAEQQNIGGPG
PVISGSGIGDVWNKANEPAEQQENIGGPGPVVSGSGIGNVWEKANEQAAHQQSIIEGPGPV
VSGSGIGNVWEKANEQAAHQQSIIEGPGPVVSGSGIGDVWNKANEQAAEQQNIGGPGPVIS
GSGIGNVWEKANEQAAEQQNIIGVGGPGPVKSGSGIGNVWEETNEEAASMQA

>accession|CAM31908.1|Putative bet v 1 related allergen [Actinidia
chinensis]
MGVVTYDMEIPSKVPPVKLYKAFILDGDTLVPKVLPHPAIKCVKILEGDGCAGTIKEVTFG
EGSHHKCVKQRVDAIDKDNLTYSYTIIEGDVLAEKFEISYHIKIVACPDGGSICKNRSI
YTTKGDCVSEEEIKLGKEKAAEIFKALEAYLLANPDYC

>accession|CAM31909.1|Putative bet v 1 related allergen [Actinidia
deliciosa]
MGAITYDMEIPSSISAEMFKAFVLDGDTIIPKALPHAITGVQTLEGDGGVGTIKLTTFG
EGSVHKSVKHRIDGLDKENFTYSYSIIIEGGALDVFEISYHIKIVATPDGGCICKNRSIY
TPKCDAAQVSEEEIKAGKERASGIFKKVEAYLLANPDC

>accession|CBA13559.1|Allergen putative alpha-amylase inhibitor CM2
[Triticum aestivum]
TGPYCYPGMGLPSNPLEGCREYVAQQTGCVGIVGSPVSTEPGNTPRDRCCCKELYDASQHC
WCEAVRYFIGRTSDPNSGVKLDLPGCPREPQRDSAKVLVTPGHNCNMTVHNTPYCLGLDI

>accession|CBA13560.1|Putative putative alpha-amylase inhibitor 0.28
[Triticum aestivum]
SGPWSWCDPATGYKVSALTGCRAMVKLQCVGSQVPEAVLRDCCQQLADVNNNEWCRCEDLS
SMLRSVYQELGAREGKEVLPGCRKEVMKLTAAVPEVRKVPINPNSGDRAGVCYWAAYPD
V

>accession|CAY54134.1|Putative alpha/beta gliadin precursor [Triticum
aestivum]
VRVPVPLQLPQNPSSQQQPQEQVPLVQQQQFLGQQQQHFPGQQQPFPFPQPPYQPPQFLPQ
LPYPQPPFPFPQSYPPQPPQYPPQPPQPISSQQQAQLQQQQQQQQQILQQILQQQLIPCR
DVLVQQPNIAHASSQVSQQSYQLLQQQLCCQQLWQTPEQSRCAIHNVIHAIILHHQQQQQ
QQQQQQQQQQQQQQQQQQQQQPSQVSYQQPPQQQYPSGQGSFQPSQQNPQAQGFVQPPQ
QLPQFEEIRNLALQTLPAMCNVYIPPYCSTTIAPFGIFSTN

>accession|3FT1_A|Allergen Chain A, Crystal Structure Of Pollen Allergen
Phl P 3 [Phleum pratense]
AVQVTFVTQKGSDPKKLVLVDIKYTRPGDSLAEVELRQHGSEWEPLTKKGNVWEVKSSKP

LVGPFNFRFMSKGGMRNVFDEVIPTAFSIGKTYKPEEQEF

>accession|ADB92492.1|Allergen major allergen Cr-PII [Periplaneta americana]

MKLPIMILAVLGVAFGKSLPTRNLQDDLNDLFLALVPTDEIVAIIVMDYLANDAEVQEAVAY
LQGDEFHKIVSTVEGLQEF'TNFVQFLEDHGLDAVGYINQLHSVLGWDPYVPPSQRKHARR
GVGVDGLIDDI IAILP IDDLKALFQEKLETSPDFKAFYDAIRSPEFQSIVQTLNAMPEYQ
ELLQKLRDKGVDVDHYIELIRALFGLSRATRNLQDDLNDLFLALIPTDQILAIAMDYLAND
AEVQELVAYLQSDDFHKIIT'VEGLDAFNNFYFMKEHGLDVVDYINEIHSIIGLPPFPV
PTRRHARRGVGINGLIDDVIAILPVDELKALFQEKLETSPDFKALYDAIRSPEFQSIIST
L'NAMPEYQELLQNL'RDKGVDVDHFIELIRSLFGLP

>accession|ADB92493.1|Allergen major allergen Cr-PI [Periplaneta americana]

MKTALVFAAVVALVACAAFP'AHKDYQLADKQFLAKQRDVLRL'FHRVHQHNILNDQVEVG
NTYDIEANIGNYKYPRVVKQFMAYF'KKGMLPRGEPFSVYFEKHREQAIMLYNLFYFANDY
DTFYKTACWARDRVNEGFMFYSFSIAV'FHRDDMQGVMLPPPYEVYPYLFVDH'DVIHMAQK
YWMKNAGSNEHHSYVIVPNF'TLKNQDQLLAYFTSDVNLNAFNTYR'YYPYPSWYNTTLYGH
TIDRRGEQFYTYKQIYARY'FLERLSNDLPDVPYFYYSKPVKSAYNP'NLRYHNGEEMPVR
PSNLYVTNFDLYYIADIKNYEK'RVEDAIDFGYVFDEHVKPHSLYHDVHGMEYVADMI'EGN
MDSPNFYFYGSIYHMYHSMIGHI'VDPYHKMGLAPSALEHPETVLRDPAFYQLWKRVDH'LF
QKYKNR'LPYRTHDELAFEGVKVENVDVGKLYTYFEQYDVS'LDMSVYVNVKVDQIPNVDVHA
RQYRLNHK'PFTYNI'EVSSDKAQDVYVRVFLGPKYDYLGREYDLNDRRHYFVEMDRFPHHV
EAGKT'VIERNSHDSNIVAPERDSYRTFYKVKQ'EAYEGKSQYYVDKGHNYCGYPENLLIPK
GKKGGQAYTFYVIVTPYVKQDEHDFEPYNYKAFS'YCGVGSNRKYPDNMPLGYPFDRKIYS
NDFYTPNMYFKDVIIFHKKYDE'VGVQGH

>accession|ADB96066.1|Allergen profilin [Arachis hypogaea]
MSWQTYVDNHL'LCIEGNHLSSAAILGQDGSVWAQSSNFPQFKPEEITAIMNDFAE'PGSL
APTGLYLGGTKY'MVIQGEPGAVIRGKKGPGGVTIKKTNQALIIGIYDEPMT'PGQCNMIVE
RLGDYLIDTGL

>accession|CBJ24286.1|Putative ragweed homologue of Art v 1 precursor [Ambrosia artemisiifolia]

MAAGLLV'FVLA'FSEIASVKGKLC'EKPSLTWSGKCKVKQTDKCDKRCIEWEGAKHGACHKR
DSKATCF'CYFDCDPTKNP'GPPGAPK'GKAPAPSP'PSGGGAPPPSGGEGGDGPP'PEGGEG
GGDGGGEGGGEGGGDGGGEGGGEGGGDGGGEGGGEGGGEGGGEGGGEGGER

>accession|CAX32965.1|Putative parvalbumin [Scomber scombrus]
MAFASVLKDAEITAALD'GCKAAGSFDHKKFFKACGLSGKSADEVKKAFAI'IDQDKSGYIE
EELKLF'LNQNFKAGARALS'DAETKAF'LKAGDSDGDGKIGVDEFAAMIKG

>accession|CAX32966.1|Putative parvalbumin [Salvelinus fontinalis]
MACAHLCKEADIKTAL'EAACKAADS'FNFKTFFHTIGFASKSADDVKKAFKVIDQDASGFIE
VEELKLF'LNQNF'CPKARVLTDAETKAF'LKAGDADGDGMIGIDEFAVWVKQ

>accession|CAX32967.1|Putative parvalbumin [Salvelinus fontinalis]
MAFAGLNDADVAAALAACTAADS'FNHKAFFAKVGLAGKSNDDVKKAFYVIDQDKSGFIEE
DELKLF'LNQNF'SASARAL' TDAETKAF'LDAGDKDGDGMIGVDEFAAMIKG

>accession|P86431.1|Putative RecName: Full=Parvalbumin beta 1 [Oncorhynchus mykiss]

ACAHLCKEADLKTAL'EAACKAADS'FNFKTFFHTLGFASKXXDDVKKXXXVLDQDASGFLEV
EELKLF'LNQNF'CPKXXXLTDAETKAF'LKAGDADGDGMIGLDEF'AVLVKQ

>accession|P86432.1|Putative RecName: Full=Parvalbumin beta 2
[Oncorhynchus mykiss]
SFAGLNDADVAALAAACAAADSFNHKAFFAKXXXXXXXXSPDDLKXXXXLDQDKSGFLEED
ELKLFQNFASARALTAETKXXXXAGDADGDGMLGLDEFVAVLVKQ

>accession|P85894.1|Allergen RecName: Full=Non-specific lipid-transfer
protein 1; Short=LTP 1; AltName: Allergen=Mor n 3 [Morus nigra]
ITCGQVSSSLAPCINYL RAGGVVPANCCNGVRS LNNAAKTTADRQAACNCLKSAFN SIKG
LNLNLAAGLPGKCGVSVPYKISPSTDC KSVK

>accession|ADC55380.1|Putative tropomyosin [Macrobrachium rosenbergii]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVHN LQKRMQQLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERM R KVLENRSL SDEERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELDTFSELSGY

>accession|CAA31395.4|Allergen high molecular weight glutenin subunit 5
[Triticum aestivum]
MAKRLVLFVAVVVALVALTVAEGEASEQLQCERELQELQERELKACQQVMDQQLRDISPE
CHPVV VSPVAGQYEQQIVVPPKGGSFY PGETTPPQQ LQQRI FWGIPALLKRY YPSVTCPQ
QVSYYPGQASPQRPGQGQQPGQGQQGY YPTSPQQPGWQQPEQGGQPRYYPTSPQQSGQLQ
QPAQGQQPGQQGQQGQQPGQGQPGYYPTSSQLQPGQLQQPAQGQQGQQPGQAQQGQQPGQG
QQPGQGQQGQQPGQGQQPGQGQQGQQLGQGQQGY YPTSLQQSGQGQPGYYPTSLQQLGQG
QSGYYPTSPQQPGQGQQPGQLQQPAQGQQPGQGQQGQQPGQGQQGQQPGQGQQPGQGQP
YYPTSPQQSGQGQPGYYPTSSQQPTQSQQPGQGQQGQQVGQQQAQQPGQGQQPGQGQP
YYPTSPQQSGQGQPGYYLTSPQQSGQGQQPGQLQQAQGGQKGGQPGQGQQPGQGQQGQP
GGQQGQQPGQGQPGYYPTSPQQSGQGQQPGQWQQPGQGQPGYYPTSP LQPGQGQPGYDP
TSPQQPGQGQQPGQLQQPAQGQQGQQLAQGGQQQPAQVQQGQRPAQGQQGQQPGQGQQG
QQLGQGQQGQQPGQGQQGQQPAQGQQGQQPGQGQQGQQPGQGQQGQQPGQGQQPGQGQP
YYPTSPQESGQGQQPGQWQQPGQGQPGYYLTSP LQLGQGQQGY YPTSLQQPGQGQQPGQW
QQSGQGQHWYYPTSPQLSGQGQRPGQWLQPGQGQQGY YPTSPQQPGQGQQLGQWLQPGQG
QQGY YPTSLQQTGGQQSGQGQQGY YSSYHVSVEHQAA SLKVAKAQQ LAAQLPAMCRLEG
GDALSASQ

>accession|ADC80502.1|Allergen non-specific lipid transfer protein 1a
precursor [Phaseolus vulgaris]
MASVKFACVVVLCMVVVGAAHTAQGMT CGVQSNLVPCVTF LQNGGFVPAGCCNGVRNIMN
SARSTADRRGICNCLKTAAGAVRGLNPNNAQALPGKCGVNIPYKISTSTNCASIN

>accession|ADC80503.1|Allergen non-specific lipid transfer protein 1b
precursor [Phaseolus vulgaris]
MATLNSACVVAVLCLVVL TAPTAAHAI SCGQVTSSLASCIPFLTKGGVPASCCSGVRS L
NAAAKTT PDRQAVCNCLKSAAGAIPGFNANNAGILPGKCGVSIPYKISTSTNCATIKF

>accession|ADD17628.1|Allergen Per a 3 allergen [Periplaneta americana]
MKTALVFAAVVAFVAARFPDHDYKQLADKQFLAKQRDVLRL FHRVHQHNILNDQVEVGI
PMTSKQTSATTVP PSGEAVHGV LQEGHARPRGEPFSVNYEKHREQAIMLYD LLYFANDYD
TFYKTACWARDRVNEGFMYSFSIAVFHRDDMQGVMLPPP YEVYPYLFVDHDVIHMAQKY
WMKNAGSGEHHSHVIPVNF TLR TQDHLLAYFTSDVNLNAFN TYYRYYPYPSWYNTTLYGYF
LERLSNDLPDVYPFYYSKHNI DRRGEQFYTYKQIYARPVKSAYNP NLRYHNGEEMPVRP
SNMYVTNFDLYYIADIKNYEK RVEDAIDFGYAFDEHMKPHSLYHDVHGMEYLADMI EGNM
DSPNFYFYGSIYHMYHSMIGHIVDPYHKMGLAPSL EHPETVLRDPVFYQLWKRVDHLFQK

>accession|CBK62693.1|Putative ragweed homologue of Art v 1 precursor
[Ambrosia artemisiifolia]
MAAGLLVFLVLAISEIASVKGKLCCKVQTDKCDKRCIEWEGAKHGACHKR
DSKATCFYFDCDPTKNP GPPGAPK GKAPAPSPPSGGGAPPPSGGEGGER

>accession|CBK62694.1|Putative ragweed homologue of Art v 1 precursor
[Ambrosia artemisiifolia]
KLCEKPSLTWSGKCKVQTDKCDKRCIEWEGAKHGACHKRDSKATCFYFDCDPTKNP G P
PPGAPK GKAPAPSPPSGGGAPPPSGGEGGDGPPPEGGEGGGDGGEGGGDGGEGGGEG
GGDGGDGGEGGGEGGER

>accession|CBK62695.1|Putative ragweed homologue of Art v 1 precursor
[Ambrosia artemisiifolia]
KLCEKPSVTWSGKCKVQTDKCDKRCIEWEGAKHGACHKRDSKASCFCYFDCDPTKNP G P
PPGAPK GKAPAPSPPSGGGAPPPSGGEGGGDGGEGGGEGGGGGEGGGGGEGGGEG
GGGEGGGEGGER

>accession|CBK62697.1|Putative ragweed homologue of Art v 1 precursor
[Ambrosia artemisiifolia]
KLCEKPSVTWSGNKVKQTDKCDKRCIEWEGAKHGACHKRDSKASCFCYFDCDPTKNP G P P
PGAPK GKAPAPSPPSGGGAPPPSGGEGGGDGGGRR

>accession|CBK62698.1|Putative ragweed homologue of Art v 1 precursor
[Ambrosia artemisiifolia]
MAAGLLVFLVLAISEIASVKGKLCCKVQTDKCDKRCIEWEGAKHGACHKR
DSKASCFCYFDCDPTKNP GPPGAPK GKAPAPSPPSGGGEGGGEGGER

>accession|CBK62699.1|Putative ragweed homologue of Art v 1 precursor
[Ambrosia artemisiifolia]
MAAGLLVFLVLAISEIASVKGKLCCKVQTDKCDKRCIEWEGAKHGACHKR
DSKASCFCYFDCDPTKNP GPPGAPK GKVVKEVVVEGGEGGGGGEGGGEGGER

>accession|BAI94503.1|Putative pollen allergen CJP-8 [Cryptomeria
japonica]
MAMRMKSSMSYRFSYCQMLVLMVMTLVQIGAAQSDTNSCVNSLVPCASYLNATTKPP
DSCCVPLLNVIQTQQQLCNLLNSSIVKQSSINITQALNIPRLCGDTNVSTDACSTNATA
NAPSASTTSPVADTGDSSGIGATSLQIFLPLLAFFFLGVFKSFP

>accession|BAJ04354.1|Putative pollen allergen CPA63 [Cryptomeria
japonica]
MARRLCSFLLSFLIIVSVWAENSKFARLNLASFTWKDAEDNKNC SAGELETSSLSVMHIQ
GKCSPFRLNNSWWTAVSESIKGD TARYRAMVKGGSAGKTMVNPQEDADIPLASGQAIS
SSNYIIKLGFGTTPQSFYTVLDTGSNIAWIPCNPCSGCSSKQPPFEPKSSSTYNLT CAS
QQCQLLRVCTKSDNSVNC SLTQRYGDQSEVDEILSSETLSVGSQQVENFVFGCSNAARGL
IQRTPSLVGFGRNPLSFVSQTATLYDSTFSYCLPSLFSSAFTGSLLLGKEALSAQGLKFT
PLLSNSRYP SFYYVGLNGISVGEELVSI PAGTSLDESTGRGTI IDSGTVITRLVEPAYN
AMRDSFRS QLSNLT MASPTDLFDTCYNRPSGDVEFPLITLHFDDNLDLTLPLDNILYPGN
DDGSVLC LAFLPPGGGDDVLSTFGNYQQQLRIVHDVAESRLG IASENC DG

>accession|ADE74975.1|Putative extracellular alkaline serine protease
[Aspergillus versicolor]
MYSIKRTILLGALLPAVFGAPILEARRQTEKVP GK YIVTFKSGLQAEQIDAHTT WASNV
HKRNLERDLTDRDLYPGIEKNFKIHKFAAYVGSFDDATIEEIRNHKDV AHVEEDQVWYL
DALTTQSDAPWGLGAI SHQGDASSDYIYDTSAGADTYAYVVD TGINVDHSEFDGRASLAY

NAAGGQHVDSVGHGTHVAGTIGGKTFGVSKKANLLSVKVFEGESSSTSIILDGYNWAAND
IVSKSRTGKSAINLSLGGGYSYAFSNAVESAFDEGVLSVVAAGNENVDASNTSPASAPNA
LTVAASTERNARASFSNYGEVVDIFAPGEDILSAWIGGNSATNTISGTSMATPHIVGLSL
YLIALEGLSSPGDVTSRIKELATQGALSGVSGSPNALAYNGAE

>accession|BAJ07603.1|Putative vitellogenin, partial [Oncorhynchus keta]
SMTDLSPFDDNIVNKIHYLFSEVNAVKCSMVGDTLTTFNRRKYPVNMPLSCYQVLAQDCT
IELKFMVLLKKDHASEQNHINVKISDIDVDLYTEDHGVMVKVNEMEISKDNLPYTDPSPGS
IMIKQKGEVSLYAKSHGLQEVYFDSNSWKIKVVDWMKGQTCGLCGKADGEHRQEYRTPS
GRLTKSSVSFAHS

>accession|ADH10372.1|Putative class III chitinase precursor, partial
[Coffea arabica]
AGIVRYWGRGHDEPSSLAEFGRQEFATDVNIAFLEDFGGGRMPELNISHPLPSASDIEYC
QKHQTKVFISIAQPSLSSVEDAEVAAYVWNTYLGKSSDRPFGKAVLDGVELHIHSGN
TTYLDDLARALKGYSNVISAVAAECPIDPALDTTIRTGVVDQVRVEFFDNPSQFTPPK
DTSLLFPWDNWSDYPGVHKLYLGIPISPTIAPEGGYIPPNELVYHVLPYLKKSPPVYGGI
MVFPYLHHEVNFQSMRLRSYARAA

>accession|ADK22841.1|Allergen Sal k 4.02 [Salsola kali]
MSWQAYVDEHLMCNIEDTGNHLTSSAIVGVDGSIWAQSSNFPQVKPQEIEAINKEFDGPN
TLAPTGLFLGGEKYMVIQGEPEGAVIRGKKGPGGVCIKKTTQALIFGIYDEPVAPGQCNMV
VERLGDYLIEQGL

>accession|ADK22842.1|Putative Sal k 5, partial [Salsola kali]
KGKGGHNLHYVKGVMVYCDTCRIQFITRVSTMMEGATVSLQCRNLTAGTETFKAEAVTDKL
GMYTIKVDGDHEDDICQIVLVKSPGQECSEIPNDVYSEQAQVTLTSNNGEASDVRNANA
LGFLKKAPLPECPEVLKELDMYDVPGSVTQN

>accession|ADK27483.1|Putative transaldolase [Penicillium chrysogenum]
MSSSLEQLKASGTTVVCDSGDFATIGKYKPDATTNPSLILAASKKPEYAAALIDTAVAYG
KQNGKTLDEQVEATLDRLLVEFGKEILKIIPGKVSTEVDAKLSFDTQGSVNKALEI IKLY
ADNGISKDRVLIKIASTYEGIKAHILQTQHGINCNLTLMFSLVQAIAAAEAGAYLISPF
VGRILDWYKAAHKRDYTPQEDPGVKSVDIYNYKFKFYNTIVMGASFRNVGEITELAGC
DYLTISPNNLEDLFNSTDAVPQKLNPAAGASLEIKKREYLNNEADFRFDFNEEAMGVEKL
REGISKFAADAVTLKQLLAQKIQA

>accession|ADK39021.1|Allergen pollen allergen [Ostrya carpinifolia]
MGVFNYEAETPSVIPAARLFKSYVLDGDKLIPKVAPQAISKVENVGGNGGPGTIKNITFA
EGSPFKFVKERVDEVDNANFKYNYTVIEGDVLGDKLEKVSHELKIVAAPGGGSILKISSK
FHAKGDHEVNAEEMKGAKEMAELLLRAVESYLLAHTAEYN

>accession|ADK47394.1|Putative transaldolase [Cladosporium
cladosporioides]
MSSSLDQLKASGTTVVCDSGDFATIGKYKPDATTNPSLILAASKKPEYAKLIDDAVAYG
MKHGKTTEEKIDATFDNLLVQFGSEILKIVPGKVSTEVDAKLSFDTQGSVNKALEI IKLY
KEAGIDKERVLIKLASTWEGIQAAHELQTKHGINCNLTLMFSLPQAIAAAEAGAYLISPF
VGRILDWYKANTKQEYNASNDPGVKSVDIYNYKFKFYNTIVMGASFRNIGEITELAGC
DYLTIPALLEQLYNSTDAVPQKLNPAAGASLEIKKREYLNNEADFRFDFNEEAMGVEKL
SEGISKFAADAVTLKDILREKIEKA

>accession|ADK47876.1|Putative Tha p 1 allergen [Thaumatococcus
pityocarpa]
MKLLILALTCAAHVWARPGETYSDKYDTIDVNEVLQSERLLKGYVECLLDKGRCTPDGKE

LKDTLPDALEHECSKCTEKQKSGADTVIRHLVNRPELWKELAVKYDPENIYQERYKDRL
ESVKEH

>accession|ADK56160.1|Putative Fel d 7 allergen precursor [Felis catus]
MKALLLAVGLSLITVLQAQDPPASGEDTMAMSGKWYLKAMITDRETSWKKPELVTPMTLT
VLEGGNLKAETLLTNGQCKEVELILEKTSEPKKYTTYGGKRVVYIEPTEVKDHYIFYCE
GEMQGEQARMAKLVGRDPESNEEALENFREFLRAKGFNQEIFSPKQSDTCPPGTDQEPEV

>accession|ADK92390.1|Putative Der p 13 allergen [Dermatophagoides
pteronyssinus]
MASIEGKYKLEKSEKFEFLDKLGVGFMVKTAATLTKPTFEVAKENDQYVFRSLSTFKNT
EIKFKLGEFEEDRADGKRVKTVINKDGNKQVQTFQGDKEVKIVREFNGDEVVVTASCD
GVTSVRTYKRI

>accession|CBW30986.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLQPVRS AEDLQEILPVNETRRLTTS GAYNIIDGCWRGKADW
AENRKALADCAQGFQKGT VGGKDGDIYTVTSDLD DDVANPKEGTLRF GAAQNRPLWII FE
RDMVIRLDKEMVVNSDKTIDGRGAKVEIINAGFTLNGVKNV IHNINMHDVKVNPGLIK
SNDGPAAPRAGSDGDAISISGSSQI WIDHCSLSKSV DGLVDAKLGTT RLTVSNSLFTQH Q
FVLLFGAGDENIEDRGM LATVAFNTFTDNDVQRMPRCRH GFFQVVNNNYDKWGSYAIGGS
ASPTILSQGNRFCAPDERSKKNVLGRHG EAAAESMKWNWR TNKDVL ENGAIFVASGVDPV
LTPEQSAGMIPAEPGESALSLTSSAGVLS CQPGAPC

>accession|CBW30987.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLQPVRS AEDVEEFLPSANETRSLKACEAHNIIDKCWRCKA
DWANNRQALADCAQGFQKGT YGGKHGDVYTVTSDKDD DVANPKEGTLRF AAAQNRPLWII
FKRNMV IHLNQELVVNSDKTIDGRGVKNIVNAGL TLMNVKNI IHNINI HDIKVCPGGM
IKSNDGPPILRQ QSDGDAINVAGSSQI WIDHCSLSKASDGLLDITLGSSHVTVSNCKFTQ
HQFVLLL GADDTHVQDKGMLATVAFNMFTDHDVQRMPRCRFGFFQVVNNNYDRWGTYAIG
GSSAPTILSQGNRFFAPDDI IKNV LARTGTGNAESMSWNWR TDKD LLENGAIFLPSGSD
PVLTP EQKAGMIPAEPGEAVLRLTSSAGVLSCHQ GAPC

>accession|CBW30988.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFQKGT YGGKWGDVYTVTSNLDD DVANPKEGTLRF AAAQNRPLWII F
KNDMVINLNQELVVNSDKTIDGRGVKVEI INGLTLMNVKNI IHNINI HDVKVLPGGMI
KSNDGPPILRQASDGD TINVAGSSQI WIDHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNDVQRMPRCRFGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQ IKNV LARTGTGAAESMAWNWR SDKD LLENGAIFVTS GSDP
VLT PVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>accession|CBW30989.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRS AEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGFQKGT YGGKWGDVYTVTSNLDD DVANPKEGTLRF AAAQNRPLWII F
KNDMVINLNQELVVNSDKTIDGRGVKVEI INGLTLMNVKNI IHNINI HDVKVLPGGMI
KSNDGPPILRQASDGD TINVAGSSQI WIDHCSLSKSF DGLVDVTLGSTHVTISNCKFTQQ
SKAILLGADDTHVQDKGMLATVAFNMFTDNDVQRMPRCRFGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQ IKNV LARTGTGAAESMAWNWR SDKD LLENGAIFVTS GSDP
VLT PVQSAGMIPAEPGEAAIKLTSSAGVLS CRPGAPC

>accession|CBW30990.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGFAGKTYGGKWDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNI I IHNINIHDVKVLPGGMI
KSNDGPPIFRQASDGDITINVAGSSQIWIWDHCSLSKSFDFGLVDVTLGSTHVTIISNCKFTQQ
SKAILLGADDTHTVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKNVLRARTGTGVAESMAWNWRSKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLSRPGAPC

>accession|CBW30991.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEALNIIDKCWRGKAD
WENNRQALADCAQGFAGKTYGGKWDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNI I IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGDITINVAGSSQIWIWDHCSLSKSFDFGLVDVTLGSTHVTIISNCKFTQQ
SKAILLGADDTHTVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKNVLRARTGTGVAESMAWNWRSKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLSRPGAPC

>accession|CBW30992.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKQCCYILYFTLALVALLQPVRSAEGVGEILPSVNETRSLQACEAYNIIDKCWRGKAD
WENNRQALADCAQGFAGKTYGGKWDVYTVTSNLDDDVANPKEGTLRFAAAQNRPLWIIIF
KNDMVINLNQELVVNSDKTIDGRGVKVEIINGGLTLMNVKNI I IHNINIHDVKVLPGGMI
KSNDGPPILRQASDGDITINVAGSSQIWIWDHCSLSKSFDFGLVDVTLGSTHVTIISNCKFTQQ
SKAILLGADDTHTVQDKGMLATVAFNMFTDNVDQRMPCRFRGFFQVVNNNYDRWGTYAIGG
SSAPTILCQGNRFLAPDDQMKNVLRARTGTGVAESMAWNWRSKDLLENGAIFVTSGSDP
VLTPVQSAGMIPAEPGEAAIKLTSSAGVLSRPGAPC

>accession|CBW30993.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
CCYILYFTLALVILLQPVRSAEDLQQILPSVNETRSLTTCGTYNIIDGCWRGKADWAENR
KALADCAQGFAGKTIGGKDGDIYTVTSELDDDVANPKEGTLRFGAAQNRPLWIIIFARDMV
IRLDRELA INNDKTIDGRGAKVEIINAGFAIYNVKNII IHNIMHDIVVNPGLIKCNDG
PPAPRKGSDGDAIGISGGSQIWIWDHCSLSKAVDGLIDAKHGSTHFTVSNCLFTQHQYLLL
FWDFDERGMLCTVAFNKFTDNVDQRMPLNRHGFVQVVNNNYERWGSYALGGSAGPTILSQ
GNRFLASDIKKEVVGRYGESAMSESINWNWRSYMDVFEENGAI FVPSGVDPVLTPEQNAGM
IPAEPGEAVLRLTSSAGVLSLSCQPGTTPC

>accession|CBW30994.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD
WAENRQALGDCAQGFAGKATHGGKWDIYMVTSDQDDDVVNPKEGTLRFGATQDRPLWIIIF
QRDMIIYLQEMVVTSDKTIDGRGAKVELVYGGITLMNVKNV I IHNIDIHDVVRVLPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDIWIWDHCTLSKSFDFGLVDVNWGSTGVTIISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPCRFRGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPGDMVPQLTMNAGVLTCSPGAPC

>accession|CBW30995.1|Allergen putative pectate lyase precursor
[Ambrosia artemisiifolia]
MGIKHCCYILYFTLALVTLVQAGRLGEEVDILPSPNDTRRSLQGCEAHNIIDKCWRCKPD
WAENRQALGDCAQGFAGKATHGGKWDIYMVTSDQDDDVVNPKEGTLRFGATQDRPLWIIIF

QRDMIIYLQQEMVVTSDTTIDGRGAKVELVYGGITLMNVKNVIIHNIDIHDVRLVLPGGRI
KSNGGPAIPRHQSDGDAIHVTGSSDVWIDHCTLSKSFDFGLVDVNWGSTGVTISNCKFTHH
EKAVLLGASDTHFQDLKMHVTLAYNIFTNTVHERMPCRFRGFFQIVNNFYDRWDKYAIGG
SSNPTILSQGNKFVAPDFIYKKNVCLRTGAQEPPEWMTWNWRTQNDVLENGAIFVASGSDP
VLTAEQNAGMMQAEPPGDMVPLQTMNAGVLTCSPGAPC

>accession|ADL09135.1|Putative hyaluronidase precursor [Polybia paulista]

SWVEFALSERPKRVFNIIYWNVPTFMCHQYGINFDEVTFDNFKHNSKDNFRGETLAIYYDP
GNFPALIPVNNNGKYKERNNGGVPQQRGNITIHLLQQFNEDLDKMTDPKSFSGGIGVIDFERWRP
VFRQNWGNTIEIHKYSIELVRKEHPKWSKSMIEAEATKKFEKYARYFMEETLKLAKKTRK
RAKWGYYGFPCYNASPNPSPCDAKAIIENDRMSWYNNQEILLPSVYVRHKQDPEER
IYLVQGRVKEAVRVSNNLEHSPSVLPYWWYVYQDEMEIFLSETDVKKTFQEIVTNGGDGI
IIWGSSSDVNSLSKCKRLREYLLNTLGPVAVNVTTETVNRSSSLNF

>accession|ADL32660.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAFGAYKNVEIKDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFIDYSVIDGDVLMGFIDKIEHLSVVPADGGSTTKTTAIF
HTKGDVAVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|ADL32661.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAFGAYKNVEIKDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFIDYSVIDGDVLMGFIDKIEHLSVVPADGGSTTKTTAIF
HTKGDVAVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|ADL32662.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAFGAYKNVEIKDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFIDYSVIDGDVLMGFIDKIEHLSVVPADGGSTTKTTAIF
HTKGDVAVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|ADL32663.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAFGAYKNVEIKDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFIDYSVIDGDVLMGFIDKIEHLSVVPADGGSTTKTTAIF
HTKGDVAVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|ADL32664.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAFGAYKNVEIKDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFIDYSVIDGDVLMGFIDKIEHLSVVPADGGSTTKTTAIF
HTKGDVAVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|ADL32665.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAFGAYKNVEIKDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFIDYSVIDGDVLMGFIDKIEHLSVVPADGGSTTKTTAIF
HTKGDVAVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|ADL32666.1|Allergen PRP-like protein [Daucus carota]
MGVQKHEQEITSSVPAEKMFHGLILDIDNLPKAAFGAYKNVEIKDGGVGTIKHITLPE
GGPVTTMTLRTDGLDKKGFIDYSVIDGDVLMGFIDKIEHLSVVPADGGSTTKTTAIF
HTKGDVAVPEENIKYAEAQNTMLFKAVEAYLIAN

>accession|P86687.1|Putative RecName: Full=Hyaluronidase; Short=Hya;
AltName: Full=Hyaluronoglucosaminidase [Polybia paulista]
GETISIIYDPPGKFPALMPLKNGNYEERNNGGVPQQRGNITIHLLQQFNEDLDKMTDPKNFGGI
GVIDFERWKPVFRQNWGNTIEIHKYSIELVRYEHPKWSKSMIEAEATKKFEKYARLFMEE

TLKLAKKTRKRAKWGYGFPCYNYTPNPGPDCDAKAMIENDRLSWMYNNQEILFPSVY
VRHELTPDQRVYLVQGRIKEAVRISNNLKHSPKVLSYWVYVYQDKMDIFLSETDVKKTFQ
EIVTNGGDGIIIWGSSSDVNSLSKCKRLREYLLNTLGPFAVNVTTETVN

>accession|P86686.1|Putative RecName: Full=Venom allergen 5; AltName:
Full=Antigen 5; Short=Ag5 [Polybia paulista]
NKYCNIKCSKVAHTVCQTGESTKPSSKNCAKVSITSVGVTEEEKKLIVDEHNRFRQKVAQ
GLETRGNPGPQPAASDMNVLVWNEDELAYIAQVWASQCQFFVHDKCRNTAQYQVQVQNIAYS
ASTAAYPGVVKLIVLWENEVKDFNYNTGITKENFAKVGHYTQVVWAKTKEVGCSSIKYIE
KGMKSHYLVCNYGPAGNVLGAQIYEIK

>accession|XP_003030591.1|Putative glycoside hydrolase family 15 and
carbohydrate-binding module family 20 [Schizophyllum commune H4-8]
MGLASTVSLALLGLCSLARAQTSAADAYVSAESPIAQAGILANIGPSGSKSHGAASGVII
ASPSTSNPDYLYTWTRDAALVSRALVDEFIEGESSLQSVIDSYVSSQQLQQRVDNPSGSY
TSGGLGEPKFNIDLTAFTGAWGRPQRDGPALRAITLITYGNHLLSSGNTSYVTDTIWPVV
KADLDYVVSYNQTFGLWEEVSSSSFFTTAEQHTALRLGATFATAVGASASTYLTQADN
VLCFLQSYWNSNGGYATANTGGRSIDANTVLTSTIHTFDIEAGCDSVTFQPCSDRALSN
LKVYVDSFRGLYSINPTGATDPILTGRYKEDVYNGNPWYLTTFAVAEQLYDALNTWDKL
GSLDVTSTSLAFFKQFDSSITAGTYASSTSEYATLTSAIRNWADGFLEVLADFTPADGGL
TEQIDKSSGNPTSAADLTWSYASAITAFKARGGAIPASWGAAGLTPATCSTGGGGGSGG
DTVAVTLNVQATTVYGENIYVTGSVNQLANWSPDNAIALNADNYPTWSVTVNLPAQTQIE
YKYIRKNNQVTTWESDPNRSITTSASGSFTQNDTWR

>accession|ADM15668.1|Putative lipid binding protein [Felis catus]
MLKVSSLFILLCGLLASSSTQEVLSRVSSHITDALTOGLLGMNFLTPTLQTIDFQGPLKDI
FSLVLGHQLTNGEANFMVQMKDLRLFQVFIETSPDFKIDLRMPLAFSIQIKFPALNPYI
FHVRTDMKVQLYLEKDVDRYQLTFGHCRIVPETVWIQSGNFITPMKNFIVENIERALGN
VIIHNFQAKMCPFINSWLYNLNPQVTNQLISLLLQHGTYQATVEIPAK

>accession|ADM18345.1|Putative putative Tab y 1 allergen [Tabanus yao]
MAPIIVPCLLLVVLVLCQSVINSLDYCSLCRGGGEHVGCSPGFSSDCGQKARTRKFTK
EHKKVILDKINDVRDHVAKGSWGLPVASRMKVIWDEELAALAKRHTQGCVPEAYKCRHT
LRFWSPGQLNFEFYADKMPSTMSLISTAIKRHTQKHNI TRDII EKYPAGPKGNVKELA
LAISDRVTAVGCGLTTWKLGGKARALLTCNFSSENDYNRPVYKTGNSPGEKCIKKDETFK
NLCSAQEPINPNEHNF

>accession|ADM18346.1|Putative putative Tab y 2 allergen [Tabanus yao]
MKLHQGLVCLSVLILLPTCILGDRKFEVYWNIPFMCPDQNKTIMDLNKKHGVIONTEDL
FRGDKISLLYHPGAFPAITRKT'TNTLIYENGGVPQAGNLSLHLKLEKDINEQITDKNF
SGLAVIDFELWRPIFRQNGGSLSDYQNLKLEKDLHPEFNEDQLRKEAERRIEKFGRSF
IKQTLIKAKKLRPKAQWGYAFYCFNGRRRYVDTTCIPSAKIDNDRILYMFENSVDVIYPA
VYLQTDLAQKNQTLVVKGRVDEAVRMAMVKKPAKPPVLVYHRYVFTDTLEYISKENTTA
VFKAMKDNGADGVI IWGSSFDLNSKEKCAKFLDYLRVLPVIDEVKRS

>accession|ADM52184.1|Allergen Der f 1 allergen, partial
[Dermatophagoides farinae]
RPASIKTFEEFKKAFNKNYATVEEEEVARKNFLES�KYVEANKGAINHLSLSDLSLDEFKNR
YLMSAEAFEQLKTQFDLNAETSACRINSVNVPSSELDLRSRRTVTPIRMQGGCGSCWAFSG
VAATESAYLAYRQTSLLDSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEERSYPYVAR
EQRCRRPNSQHYGISNYCQIYPPDVKQIREALQTHTAIAVIIGIKDLRAFQHYDGRITII
QHDNGYQPNYHAVNIVGYGSTQGVYWIWRNSWDTTWGDSGYGYFQAGNNLMMIEQYPYV
VIM

>accession|ADN39439.1|Allergen class I chitinase isoform 2 [Castanea sativa]
EQCGRQAGGAACANNLCCSQFGWCGNTAEYCGAGCQSQCSSPTTTTSSPTASGGGGGDVG
SLISASLFDQMLKYRNDPRCKSNGFYTYNAFIAAARSFNGFGTTGDVTTTRKRELAFLAQ
TSHETTGGWATAPDGPYAWGYCFIMENNKQTYCTSKSWPCVFGKQYYGRGPIQLTHNYYN
GQAGKAIGADLINNPDLVATNPTISFKTAIWFWMTPQANKPSSHVDVIIGNWRPSAADTSA
GRVPSYGVITNIINGGLECGHGSDDRANRIGFYKRYCDTLGVSYGNNLDCYNQKPPFA

>accession|ADN39440.1|Putative prunin 1 precursor [Prunus dulcis]
MAKAFVFLCLLLVFNGLAARQSQLSPQNQCQLNQLQAREPDNRIQAEAGQIETWNFNQ
EDFQCAGVAASRITIQRNGLHLPSYSNAPQLIYIVQGRGVLGAVFSGCPETFEESSQSSQ
QGRQQEQEQERQQQQQGEQGRQQGQQEQQQERQGRQQGQQEQEGRQQEQQQGQQGRPQQ
QQQFRQFDRHQKTRRIRREGDVVAIPAGVAYWSYNDGDQELVAVNLFHVSSDHNQLDQNP
KFYLAGNPENEFNQGGQSQPRQQEQGRPGQHQQPFGRPRQQEQQGSNNVFSGFNTQLL
AQALNVNEETARNLQGNDRNRIIRVRGNLDFVQPPRGRQEREHEERQQEQQLQERQQQ
GGQLMANGLEETFCSLRLKENIGNPERADIFSPRAGRISTLNHNLPILRFLRLSAERGF
FYRNGIYSPHWNVAHSVYVIRGNARVQVVNENGDAILDQEVQQQLFIVPQNHGVIQQ
AGNQGFYFAFKTEENAFINTLAGRTSFLRALPDEVLANAYQISREQARQLKYNRQETIA
LSSSQRRRAVV

>accession|ADN39441.1|Putative prunin 2 precursor, partial [Prunus dulcis]
CLLLLFNGCLASRQHIFGQNKQWQLNQLQLEAREPDNHIQSEAGVTESWNPSDPQFQLAGVA
VVRTIIEPNGLHLPSYVNPQLIYIVRGRGVLGAVFPGCAETFEDSQPQQFQQQQQQQQF
RPSRQEGGQQQQFQGEDQDRHQKIRHIREGDIIALPAGVAYWSYNNGEQPLVAVSLLD
LNNDQNQLDQVPRRFYLAGNPQDEFNPQQQGRQQQQQQQGGQNGNIFSGFDTQLLAQA
LNVNPETARNLQGDNRNEIVRVQQLDFVSPFSRSAGGRGDQERQQEQQSQREREK
QREQEQGGGGQDNGVEETFC SARLSQNIQDPSRADFYNPQGGRISVVNRNHLPIILRYLR
LSAEKGVLYNNAIYTPHWHTNANALVYAIRGNARVQVVNENGDPILDDEVREGQLFLIPQ
NHAVITQASNEGFYISFRDENGFTNTLAGRTSVLRALPDEVLQNAFRISRQEARNLKY
NRQESRLLSATSPRGRRLMSILGY

>accession|C7E3T4.1|Allergen RecName: Full=Arginine kinase; Short=AK;
AltName: Allergen=Pen m 2 [Penaeus monodon]
MADAAVIEKLEAGFKKLEAATDCKSLLKKYLSKAVFDQLKEKKTSLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYTLFSPFLDPDIIEDYHVGFKQTDKHPNKDFGDVNTFVNVDPEGKYV
ISTRVRCGRSMEGYPNCLTEAQYKEMEAKVSSTLSSLEGELKGTYYPLTGMSKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPAGRGIYHNDNKTFLVWVNEEDHLRIISMQMGDGLG
QVFRRLTSAVNEIEKRIPFSHHDLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYNLQVRGTRGEHTEAEGGIYDISNKRMRGLTEFQAVKEMQDGILELIKMEKEM

>accession|P86739.1|Putative RecName: Full=Parvalbumin beta 1 [Macrurus magellanicus]
SFAGILDDADITAALAACKAEGSFKHVEFFAKIGLAGKKVFAIIDQDKSDFVEEDELKLF
LQVFSAGARALTAETKAGDSGDGKIGVDEFAQMIKG

>accession|P86745.1|Putative RecName: Full=Parvalbumin beta 1 [Merluccius australis australis]
AFAGILADADITAALAACKAEGTFTHGVFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKLFQNFSAAGARALTAETATFLKAGDSGDGKIGVDEFAAMVKG

>accession|P86749.1|Putative RecName: Full=Parvalbumin beta 1 [Merluccius australis polylepis]
AFAGILADADITAALAACKAEGTFTHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE

DELKFLQNFSAAGARALTAETATFLKAGDSGDGKIGVDEFAAMVKG

>accession|P86761.1|Putative RecName: Full=Parvalbumin beta 1 [Merluccius gayi]

AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKFLQNFSAAGARALTAETATFLKAGDSGDGKIGVDEFAAMVKG

>accession|P86768.1|Putative RecName: Full=Parvalbumin beta 1 [Merluccius paradoxus]

AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSPADIKKVFGIIDQDKSDFVEE
DELKFLQNFSAAGARALTAETATFLKAGDSGDGKIGVDEFAAMVKG

>accession|P86774.1|Putative RecName: Full=Parvalbumin beta 1 [Merluccius productus]

AFAGILADADITAALAACKAEGTFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKFLQNFSAAGARALTAETATFLKAGDSGDGKIGVDEFTAMIKG

>accession|P86741.1|Putative RecName: Full=Parvalbumin beta 2 [Macruronus magellanicus]

AFAGILADADCAAALKACEAADSFNKAFKAVGLASKSAEEIKKAFVVIDQDKSGFIEE
DELKFLQNFVAGARALTAETKAFKAGDSGDGGAIGVDEFAALVKA

>accession|P86750.1|Putative RecName: Full=Parvalbumin beta 2 [Merluccius australis polylepis]

AFSGILAEADIAAALKACEAADSFNKAFKAVGLSAKSADDIKKAFFVIDQDKSGFIEE
DELKFLQNFVSAAGARALTAETKAFKAGDSGDGGAIGVDEFAVLVKA

>accession|P86752.1|Putative RecName: Full=Parvalbumin beta 2 [Merluccius bilinearis]

AFAGILADADIAAALAACKAEGSFKHGEYFAKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKFLQNFSAAGARALTAETATFLKAGDSGDGKIGVDEFAAMVKG

>accession|P86757.1|Putative RecName: Full=Parvalbumin beta 2 [Merluccius capensis]

AFSGILAEADIAAALKACEAAGTFNKAFFKAVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKFLQNFVSAAGARALTDDETKAFKAGDSGDGGAIGVEEWAALVKA

>accession|P86765.1|Putative RecName: Full=Parvalbumin beta 2 [Merluccius merluccius]

AFAGILADADITAALAACKAEGSFKHGEFFTKIGLKGKSAADIKKVFGIIDQDKSDFVEE
DELKFLQNFSAAGARALTAETATFLKAGDSGDGKIGVDEFAAMVKG

>accession|P86769.1|Putative RecName: Full=Parvalbumin beta 2 [Merluccius paradoxus]

AFSGILAEADIAAALKACEAAGTFNKAFFKAVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKFLQNFVSAAGARALTDDETKAFKAGDSGDGGAIGVDEWAALVKA

>accession|P86771.1|Putative RecName: Full=Parvalbumin beta 2 [Merluccius polli]

AFSGILAEADIAAALKACEAAGTFNKAFFKAVGLTGKSADDIKKAFFVIDQDKSGFIEE
DELKFLQNFVSAAGARALTAETKAFKAGDSGDGGAIGVDEWAVLVKA

>accession|P86775.1|Putative RecName: Full=Parvalbumin beta 2 [Merluccius productus]

AFSGILAEADIAAALKACAAADTFNYKAFFAKVGLSAKSADDIKKAFFVIDQDKSGFIEE
DELKFLFLQVFSAGARALTAETKAFKAGDSGDGGAIGVDEFQALVKA

>accession|P86740.1|Putative RecName: Full=Parvalbumin beta 3 [Macruronus
magellanicus]
TFFKSNDVKKAFFVIDQDKSGFIEEDELKFLFLQVFSAGARALTAGETKTFLAAGDSGDG
GMIGVDEFQALVKA

>accession|P86742.1|Putative RecName: Full=Parvalbumin beta 3 [Macruronus
novaezelandiae]
SFNYKTFFKLAASNDVKKAFFVIDQDKSGFIEEDELKFLFLQVFSAGARALTAGETKTFL
LAAGDSGDGGMIGVDEFQALVKA

>accession|P86753.1|Putative RecName: Full=Parvalbumin beta 3 [Merluccius
bilinearis]
AFSGILADADIAAALKACEAADSFNKYKAFFAKVGLSAKSAEDIKKAFFVIDQDKSGFIEE
DELKFLFLQVFSAGARALTAETKAFKAGDSGDGGAIGVDEFQALVKA

>accession|P86770.1|Putative RecName: Full=Parvalbumin beta 3 [Merluccius
paradoxus]
AFAGVLADADIKAAALAGCAAESFNKYKTFFKACGLAGKFFAIDQDHSGFIEEDELKFLFL
QVFSAGARALSDAETKDVGDGMIGVDEFQALVKA

>accession|P86772.1|Putative RecName: Full=Parvalbumin beta 3 [Merluccius
polli]
AFAGVLADADIKAAALAGCAAESFNKYKTFFKFFAIDQDHSGFIEEELKFLFLQVFSAGA
RALSDAETK

>accession|P86754.1|Putative RecName: Full=Parvalbumin beta 4 [Merluccius
bilinearis]
AFAGVLADADIKAAALAGCAAADSFNKYKTFFKACGLFFAIDQDHSGFIEEELKFLFLQV
SAGARALSDAETKTFLAAGDVGDMIGVDEFQAA

>accession|P86760.1|Putative RecName: Full=Parvalbumin beta 4 [Merluccius
gayi]
AFAGVLADADIKAAALAGCAAADSFNKYKTFFKFFAIDQDHSGFIEEELKFLFLQVFSAGA
RALSDAETKAFKAGDSGDGKIGVDEFQALVKA

>accession|A2V735.1|Putative RecName: Full=Tropomyosin; AltName:
Full=Tropomyosin, slow-tonic isoform; Short=Tm-Chio-tonic [Chionoecetes
opilio]
MDAIKKKMQAMKLEKDNAMDKADTLEQQNKEANLRAEKTEEEIRANQKKSQLVENELDHA
QEQLSAATHKLVKEKEKAFANAEGEVAALNRRIQLEEDLERSEERLNTATTKLAEASQAA
DESERMVKVLENRSLSDAERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAESGESKIVELEEEELRVVGNLKSLEVSEEKANQREETYKEQIKTLANKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKNIADEMDQAFSELSGF

>accession|CBW45298.1|Putative thioredoxin [Plodia interpunctella]
MSIHIKDVEDLTARLTEAGDKLVVIDFMATWCGPCKIIGPKLDEIAAEMADSIVVVKVDV
DECEDIATEYSINTMPTFVFKNGKPVEQFSGANVEKLRSTILKLLK

>accession|ADQ53858.1|Allergen Ara h 1 allergen [Arachis hypogaea]
MRGRVSPLMLLLGILVLASVSATHAKSSPYQKKTENPCAQRCLQSCQEQEPDDLKQKACES
RCTKLEYDPRCVYDPRGHTGTTNQRSPPGERTRGRQPGDYDDRRQPRREEGGRWGPAGP

REREREEDWRQPREDWRRPSHQQPRKIRPEGREGEQEWGTPGSHVREETSRRNNPFYFPSR
RFSTRYGNQNGRIRVLQRFQDQSRQFQNLQNHRIVQIEAKPNTLVLPKHADADNILVIQQ
GQATVTVANGNNRRALILTRAMHSESHPFHFLHLDLDMTPELRVAKSHAVNTPGQFEDFFP
ASSRDQSSYLQGFSRNTLEAAFNAAFNEIRRVLLEENAGGEQEERGQRRWSTRSSENNEG
VIVEVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPDLSDNFGRLFEVKPKDKN
PQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVINKGTGNLELVAVRKEQQQRGRREQE
WEEEEEEEEEGSNREVRRTARLKEGDVFI MPAAHPVAINASSELHLLGFGINAENNR
IFLAGDKDNVVDQIEKQAKDLAFPGSGEQVEKLIKQRESHFVSAR PQSQSPSSPEKEDQ
EENQGGKGPLLSILKAFN

>accession|ADQ53859.1|Allergen Ara h 3 allergen [Arachis hypogaea]
MAKLLALSCLFCVVLVGLASSVTFRQGGEENECQFQRLNAQRPDNRIESEGGYIETWNPNN
QEFQCAGVALSRTVLRNALRRPFYSNAPLEIYVQQGSGYFGLIFPGCPSTYEPAQEGR
RYQSQKPSRRFQVQDQDPSQQQQDSHQKVHRFDEGLIAVPTGVAFWVYNDQDQVVTVT
LSDTSSIHNLQDQFRRFYLGNQEQEFLRYQQQQGSRPHYRQISPRVRGDEQENEGSNI
FSGFAQEFLQHAQVDRQTVENLRGENEREEOGAIVTVKGLRILSPDEEDESRRSPPNR
REEFDEDRSRPQQRGKYDENRRGYKNGIEETICSASVKKNLGRSSNPDIYNPQAGSLRSV
NELDLPILGWLGLSAQHGTIYRNAMFVPHYTLNAHTIVVALNGRAHVQVDSNGNRVYDE
ELQEGHVLVVPQNFVAAKAQSENIEYLAFKTDSTRPSIANQAGENSIIDNLPEEVVANSY
RLPREQARQLKNNNPFKFFVPPFDHQSMREVA

>accession|CBY17558.1|Putative tropomyosin, allergen Pan b 1 [Pandalus
borealis]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFLQKKLQOLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDERMDALENQLKEARFLAEEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSITDELQTFSELSGY

>accession|P0CH89.1|Putative RecName: Full=Hyaluronidase; Short=Hya;
AltName: Full=Hyaluronoglucosaminidase; AltName: Allergen=Ves m 2
[Vespula maculifrons]
DRCIWPKEGFSIYWNIPTHFCHNFGVYFKEL

>accession|P0CH87.1|Putative RecName: Full=Venom phospholipase A1;
AltName: Allergen=Vesp c 1 [Vespa crabro]
FNPCPYSDDTVKMIVLTRENKKYDFYTLDTIKNHNEFKDTITLKP HVFITHGFTSSATAE
NFVVMKALLDKGNYLVILTDWRMAACTNEIAGLKLAYYPYAASNTRLVGNVIATVTKML
VQKYNVPMANIRLIGHSLGAHISGFAGKKVQELGLGKYPEIIGLDPAGPSFKSNDCSQRI
CETDANYVQIIHTSNRLGTERTLGTVDYFMNNGYNQPGCLPIIGETCSHTRAVKYFTEC
IKHECCLIGVPKSKNPQPVSKCTRNECVVGLNAKTYPKTGSFYVPVESKAPYCNNGKGI
I

>accession|P0CH86.1|Putative RecName: Full=Venom phospholipase A1;
AltName: Allergen=Ves s 1 [Vespula squamosa]
GSKCPSDDTVAMVIVTRENRRDFYTLQTLRNHDEFKKAITRPVVFITHGFTSSATVE
SFVDLQTAILEXXXXKVTVSDWRVAACNRRTGLLYYVTAVSNTLRLVGRYIATVTKKLVD
YNVSMADIRLIGHSLGAHVSGFAGKEVQKLEKYEIIGLDPAGPSFESNDCAERLCKT
DAHVYQIIHTSKKFGIEKSIGHVDFYVNQGNQPGCGIIPKDVCSHSRAITYMTECIKR
ECCLIGIPQSKSSKSISSCTRQECVCGVGLKAKSYPNTPGSFYVPVESTAPFCNNKGKII

>accession|P0CH88.1|Putative RecName: Full=Venom protease; AltName:
Allergen=Bom t 4 [Bombus terrestris]
VVGKPAKLGAWPMMVALGF

>accession|ADR66939.1|Allergen non-specific lipid transfer protein
[Prunus persica]
MAYSAMTKLALVVALCMVVSVPPIAQAITCGQVSSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNNAAALPGKCGVSIPYKISASTNCATVK

>accession|ADR66943.1|Allergen non-specific lipid transfer protein
[Prunus avium]
MACSAMTKLALVVALCMVVSVPPIAQALTCGQVSSNLAPCIPYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVNANNAALPGKCGVNPYKISPSTNCATVK

>accession|ADR66944.1|Allergen non-specific lipid transfer protein
[Prunus avium]
MACSSMTKLALVVALCMVVSVPPIAQALTCGQVSSNLAPCIAYVRGGGAVPPACCNGIRNI
NNLAKTTADRQTACNCLKQLSASVPGVNANNAALPGKCGVNPYKISPSTNCATVK

>accession|ADR66945.1|Allergen non-specific lipid transfer protein
[Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPPIAQQAQAITCGQVVSTLAPCINIVKSGGAVPPACCNGIR
TLNGLAKTTADRQAACNRLKQLSGSIPGVNPNNAAALPGKCGVNPYKISISTNCAAVK

>accession|ADR66946.1|Allergen non-specific lipid transfer protein
[Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPPIAQAITCGQVNSVAPCIPYVIGGGAVPPACCNGIRNV
ENLAKTTADRQAACNCLKQLSGSIPGVNPNNAAALPGKCGVNPYKISISTNCAAVK

>accession|ADR66947.1|Allergen non-specific lipid transfer protein
[Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPPIAQAITCGQVSSSLAPCIGYVRGGGAVPPACCNGIRNV
NNLARTTPDRRTACNCLKQLSGSISGVNPNNAAALPGKCGVNIPYKISASTNCATVK

>accession|ADR66948.1|Allergen non-specific lipid transfer protein
[Prunus armeniaca]
MAYSAMTKLALVVALCMVVSVPPIAQAITCGQVSSSLAPCIGYVRGGGAVPPACCNGIRNV
NNLARTTPDRRTACNCLKQLSGSISGVNPNNAAALPGKCGVNIPYKISISTNCAAVK

>accession|ADR82196.1|Putative hevamine [Hevea brasiliensis]
GGIVIIYWGQNGNEGLTQTCTSTRKYSYVNIAFLNKFNGQTPQINLAGHCNPAAGGCTIV
SNGIRSCQIQGIKVMSLGGGIGSYTLASQADAKNVADYLWSNFLGGKSSSRPLGDAVLD
GIDFDIEHGSTLYWDDLARYLSAYSQKQKVVYLTAAAPQCPFPDRYLGTALNTGLLTMYGF
NSITIHASIAQVTLTTSLTRGIDGPHL

>accession|ADR82198.1|Putative Per a 2 allergen [Periplaneta americana]
MTFLIQSAFVALAAISAVLDCDPVVVPLQKRAPVEEYINTQYVGPVQLGNQYFLCVFDTSS
YTTVIPASASCVSGGCNCANVHKYYSNKPVSNVASVRILGSGYANGSEAHDYIAVSTLNA
TNQGFLADDISNDICSLGADCVIGLGRPKSGRAAFNLPTVMENFVNQDNIANFSFHHG
RYPDQGHRGVLVLGGTIPAYYRGDFTYVPLVDKDTWNFKVDSISVGNVAVATDQLAFVDS
SKYVITGPAEEIKKINDRLGCTNKVIGSRTL CVDFCDKLDNVP SVTFTIGGVAFNISSTY
HIQQNGDLCYSGFQYSAGKCFHF GDFMDNYYAKFDGQNKRMGFAKSVEEL

>accession|3LIZ_A|Allergen Chain A, Crystal Structure Of Bla G 2
Complexed With Fab 4c3 [Blattella germanica]
EAEASIVPLYKLVHVFINTQYAGITKIGNQNFLTVFDSTSCNVVVASQECVGGACVCPNL
QKYEKLKPKYISDGNVQVKFFDTGSAVGRGIEDSLTISQLTTSQQDIVLADELQSQEVICIL

SADVVGIAAPGPCPNALKGKTVLENFVEENLIAPVFSIHARFQDGEHFGEIIFGGSDWK
YVDGEFTYVPLVGDDSWKFRLDGKIGDTTVAPAGTQAIIDTSKAIIVGPKAYVNPINEA
IGCVVEKTTTRICKLDCSKIPSLPDVTFVINGRNFNISSQYYIQQNGNLCYSGFQPCGH
SDHFFIGDFFVDHYYSEFNWENKTMGFGRSVESV

>accession|CBY83816.1|Allergen hyaluronidase [Vespa magnifica]
MLLVTLFLFFLQALVNGDSCGSNCEKSERPKRVFNIYWNVPTFMCHQYGLYFDEVTFNFI
KHNSKDNFQGDKIAIFYDPGEFPALLPLNYGKYKIRNGGVPQEGNITIHQRFIEYLDKT
YPNRNFSGIGVIDFERWRPIFRQNWGNMKIYKNFSIDLVRKEHPFWNKKMIELEASKRFE
KYARLFMEETLKLAKKTRKQADWGYGYPCFNMSPTNFVPCDVTARDENNEMSWLFFNN
QNVLLPSVYIRRELTDPQRIGLVQGRVKEAVRISNKLKHSKPVFSYWWYVYQDETNTFLT
ETDVKKTFQEIIVINGDGI I IWSSSDVNSLSKCTRLREYLLTVLGP IAVNVTEAVN

>accession|ADT89774.1|Putative phospholipase A1 [Polybia paulista]
GLIPECPFNEYDILFFVYTRDKQDGIILKKNLTSYNLFQQPQISHRVVFLIHGFISTGN
NGNFDAMAKALIAKDNFLVMSVDWRRACDASVFNVAGYSKAVANTRRVGKYVADFTKIL
VDKYKVPMSNIRLIGHSLGAHTSGFAGKQVQKLLKLGKYSEIIGLDPAGPSFRSTNCPDRL
CETDAQYVQVLHTSSKLGTYDQIGSVDFYVNYGGSQPGCLVRTCSHTKAVLYMTECIKRE
CCLIGTPWSSTGSSPKPKPISACKRDICVCVGLNAKSYPAKGSFYVPVEKNSPYCHNEGI
KL

>accession|ADV17342.1|Putative myosin light chain [Penaeus monodon]
MSRKSGRSSSKRSKSSGGSNVFDMFTQRQVAEFKEGFQLMDRDKDGVIGKTDLRGTFD
EIGRIATDQELDEMLADAPAPINFMTLLNMFAERQTGESDDDDVVAKAFLAFADEGGNID
CDTFRHALMTWGDKFSSEQEADDALDQMDIDDAGKIDVQSVIQMLTAGGGDDAAAAEA

>accession|ADV17343.1|Putative sarcoplasmic calcium binding protein
[Penaeus monodon]
MAYSWDNRVKYVVRYMYDIDNNGFLDKNDFECLAVRNTLIEGRGEFSADAYANNQKIMRN
LWNEIAELADFNKDG EVT VDFEQAVQKHCQGGKYGDFPGAFKVFIANQFKAIDVNGDGK
VGLDEYRLDCITRSFAFAEVKEIDDAYNKLTTEDDRKAGGLTLERYQDLYAQFISNPDESC
SACYLFGPLKVVQ

>accession|BAJ61596.1|Putative paramyosin [Haliotis discus discus]
MDYGDVSSKVVRTVSHRSYNVYRGSSPATQNRLEARIRELEDALDTERDCRVRAEKNLAE
ITFYDQVADRLEEQQGVTVQQIEINKKRESELNKNVRKDLELAVISHESAEASLRKRNQE
TINDLTDQLEYMTKQKNRVEKEKHQLIEIDTLQGM TDSLAKAKSSAESRADGLQGSVDR
LKLQVDDLSRQLTDANSARLTQENFDLQHVVQELDSANAALAKAKSQLQASNDLKRQ
LDDESRQRQNLQVQFSQLQSGYDNLNARYEEEESESASTLRTQLSKVNAEFAALKARFEKE
LMAKSEALEELRRRLNTRIAQLEDECETLRARNNNLEKTKAKLTAEIKEITIELENTQII
VQDLTKRNRTLENENGILQRRCEDELGAEVSALRAEKASLEAEVHRLRVANAELTERNDNL
QRENKNLSDQLREAQLALKDANRELNELRQIRAOLEMERDSLASQLRDTEALRDAEGKL
AAAQAALNQLRIDMENRLREKDEEIDNIRRSSARIAEELQRTLIEVETRYKTEISRKIKK
YETDIRELEGALDNANKANA EYLKQIRSLQLRVKELEVLLEEERLADDLRGQLSISERK
RIALQQEVEDVRSLL EAAERARKNAENELNDANARLSELQIQVTALSNDKRRMEADISAM
QSDLEDAINAQRAAEERADRLFNENVRLADELQEQENYKNAESLRKQLEIEIREITVRL
EEAEAFATREGKRMVAKLQARIRDLEAELEAEQRRVREAFATSRKLERQYKEIQMQTEDD
RRILAETMSINDQLSMKVAKYKRQIEESEDVANLTMNKYRKAQQLIIEADHRADMAEKNL
VAVRRSRMSVTRDVKIVRI

>accession|CBY93636.1|Allergen allergen 5 protein [Vespa magnifica]
MKISGFVYLILITTIINLSFSEANNYCKIKCRSGIHTLCKFGISTKPNCGKNVVKGSGLT
KAEKLEILKQHNEFRQKVARGLETRGKPGPQPPAKSMNTLVWNEDELAQIAQVWASQCKYQ
HDDCRNTAKHSVGNIAQQSTTAASFGSVSNMVQMWAEVKNYQYGSTKNKLI EVGHYTO

MVWAKTKEIGCGSIKYIENGWHRHYLVCNYGPAGNIGNEPIYEKK

>accession|ADW27428.1|Putative 16 kDa major allergen [Fagopyrum tataricum]

MKLFIIILATATLLIAATQAKYLRDEGFDLGETQMSSKCTRQVKMMEPELVKCNRYIAMDI
MDDKYEELSRIOGEGCESEEKFLRGCCVAMKEMEDECVCCEWMKMMVENQKGRIGETLMR
KGIRDLKELPNKCGISEMECHSRGNWYVV

>accession|2X45_A|Allergen Chain A, Crystal Structure Of Arg R 1 In Complex With Histamine [Argas reflexus]

MDDCSGKTDAWTSIKGPKTGGYWLKQTTKTGENECTYVKGTFKENTKTATYTYGYKDAS
GKLTKTGTATAKGSDIVVGSSTSTVIYTDGKTCDVVKHGGHTELWVHSSKTSGGYNCC
DKKFTETRGSTPANEVYKCKCPGMP

>accession|ADX78255.1|Allergen Tab y 3 allergen [Tabanus yao]

MFKITVFIYVLQLILPSKVHSSPVPDSNGLREFPLSIVHINDFHARFEQTDELGGQCKP
TAKCVGGYARLVTTVVKLKEEGQNTIFLNAADNYQGLWYNLKGWNVTAFFMNLPLPADAM
TLGNHEFDDKIEGIVPFLEVIKTPIVVANIDDSLEPTFKGKYTKSVVLERGGRKIGIVGV
IAQNTDNISSPGKLRFLDEIQSVKNESKRLREEEKVDIVIVLSHIGLDHDYDLAEQAGDY
IDAIIGGHSHSFLWTGDNPPGKEKVVDAYPVEIVQTSKGVKLVIVQASAFARYVGNITLYF
GENNNLIRYAGAPVYLDSDVPEVPQIVEEMKAWEEFVHEKNEIIAESRVVLSRENCRVS
DCNIGNFFTDAYVHEYVTSHGTGPYWTPVSVGLMNVGGIRASVDRGNITFSQLITMAPFEN
TVDTFDLSGKHLLEAFEHAVTVPNRLGFNGQNMLQVSGVKLVYDVTKCEGQRVVSARKIRC
QKCDIPKYEPLDPEETYRIVTASFLANGGDGFTMIRDNKKNYKVGKDYDVLINYAKYSS
PITIGEEGRIRIIQ

>accession|BAJ78220.1|Putative Anisakis 11 allergen precursor [Anisakis simplex]

MHSTAILLLLVLQLSCYFAASFILPGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKLKD
NAGQRQVNIPPPFIRGPGPVVSGSGIGEVGQIPIGGPGPVVSGSGIGQVFPQSGQLPIG
GPGPVVSGSGIGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKLKDNAGQRQVNIPPP
FIRGPGPVVSGSGIGEVGQIPIGGPGPVVSGSGIGQVFPQSGQLPIGGPGPVVSGSGIG
GGANPPRFPVGGPGPIISGDGVNVLQKANSIPKLKGNANPPQLPVGGPGPVISVDGESVL
QKEENSL

>accession|BAJ78221.1|Putative Anisakis 11-like protein precursor [Anisakis simplex]

MHSTAILLLLVLQLSCYFAASFILPGDHGLPVGGPGPVISVDGKNVWEDANGMSELHGPGP
VVSGSGIGRVFPFRSQQLPIGGPGPVVSGSGIGGANPPRFPVGGPGPIISGDGVNVWQK
ANSIPKLKGNANPPQLPVGGPGPVISVDGESVLQKEENSL

>accession|BAJ78222.1|Putative Anisakis 11-like protein 2 precursor [Anisakis simplex]

VGGPGPVISVDGKNVWEDANGMSELHGPGPVVSGSGIGRVFPFRSQQLPIGGPGPVVSGS
GIGGANPPRFPVGGPGPIISGDGVNVWQKANSIPKLKDNAGQRQVNIPPPFIRGPGPV
VSGSGIGEVGQVPIGGPGPVVSASGRVFPPLRGLPIGGPGPVVSGSGIGRVFPFRSQQL
PIGGPGPVVSGSGIGQVFPQSGQLPIGGPGPVVSGSGIGGANPPRFPVGGPGPIISGD
GVNVWQKANSIPKLKGNANPPQLPVGGPGPVISVDGESVLQKEENSL

>accession|BAJ78223.1|Putative Anisakis 12 allergen precursor [Anisakis simplex]

MLSHLWLIQLCIVAVLSNSEREEFAFLCPVVKNLPPSVREQCIESQIVIRDCKEKKYGEN
CAELIKQCVTITGAPPVTIGGSGQYRVASSLRDCIKKGGYMGYCSNFTTHENCIKWKDEC
APSEAAEKKDENSLEVFPEFQSQCFKSKVVMQCMNEGEEESKIEKECVDALGTPPVT

AANGAYQMAAPLHRCIENGGWMKMCSTWINATICERWKQECSRDKDAEPPTNFSQCIQTQ
TVMLQCKLEFGDKCKALQEECVAATYAPTAYVDANPPIFTSETIRCVQRKMAKGL

>accession|CAX62129.1|Putative allergen lipocalin Cav p 2.0101 precursor
[Cavia porcellus]

MMQILLLALAVSLACADSIDYSKVPGNWRTIAIAADHVEKIEVNGELRAYFRQVDCTEGC
DKISITFYTNTDGVCTEHTVVGARNGENDVYTVDYAGENTFQILCNSDDAFVIGSVNTDQ
NGQTTKEVAIAAKRNFLTPEQEQKFQKAVQNAGIPLNIRYVIETDTCPD

>accession|CAX62130.1|Allergen allergen lipocalin Cav p 3.0101 precursor
[Cavia porcellus]

MQILLLALTIGLAYAHQTLDPSEINGQWHTISIAADNVEKIGEGGPLRGYFHNLHCYDGC
KNIGLTFYVKLDGNCQRFVDLGAQEDSDVYVAQYSGTNHFEVIGKKEDAIAFYNHNTDE
TGKETKMIVVARRDSLTEEEQQKLQEVAGEKGIPKDNIRYFRERDTCAQ

>accession|BAK09232.1|Putative parvalbumin [Evynnis japonica]

MPFKGLQDADVAKALEGCKDAGTFDHKKFFHACGLSGKSGADVKAFFVIDQDKSGFIEE
EELKLFQNFKAGARALTDEETKKFLKAGSDSDGDKIGADEFAEMVKV

>accession|BAK09233.1|Putative parvalbumin [Evynnis japonica]

MAFSGVLSADMDKAALDGCSAADSFYKFFKACGLSGKSADEVKKAFAIIDQDKSGFIEE
EELKLFQNFKAGARALTDEETKKAFLAAGSDSDGDKIGVDEFAALVKA

>accession|CBG76811.1|Putative pollen allergen Sec c 5 [Secale cereale]

MAVQQYTVLFLAVALVAGPAVSYGTYAPAAPGTQPKATTPEQKLMENINNGFKAAVEEA
AAVAPADKYKTFQTTFIKGSNKAFADVLTAASGQIPAQSDSMARLSTSLESSYKLAYDS
AEGATPETKYDITYVASLTSRVISGAFEVHAVKPASEEVKGVPAQPKLVVDQIDAAAYRT
AATAANAAPTNDKFNVFESFNKAIKENTGGAYASYTFVPALESVAVKQAYAATVASAPEV
KYAVFQAALSKAINAMVEAEKDAKPAAAAAATATATATVGAAGAAAGGYKA

>accession|Q40240.2|Allergen RecName: Full=Major pollen allergen Lol p
5a; AltName: Full=Allergen Lol p Ib; AltName: Full=Allergen Lol p Va;
AltName: Allergen=Lol p 5a; Flags: Precursor [Lolium perenne]

MAVQKYTVLFLAVALVAGPAASYAADAGYTPAAAATPATPAATPAAAGGKATTDEQKLL
EDVNAGFKA AVAAAANAPPADKFKIFEAAFSESSKGLLATSAAKAPGLIPKLDTAYDVAY
KAAEATPEAKYDAFVTALTEALRVIAGALEVHAVKPAEVEVLAAKIPTGELQIVDKIDAA
FKIAATAANAAPTNDKFTVFESAFNKALNECTGGAYETYKFIIPSLEAAVKQAYAATVAAA
PEVKYAVFEAALTKAITAMTQAQKAGKPAAAAAATAAATVATAAATAAAVLPPPLLVVQSL
ISLLIYY

>accession|P85524.1|Putative RecName: Full=Kirola; AltName: Allergen=Act
d 11 [Actinidia deliciosa]

MDLSGKMVKQVEILSDGIVFYEIFRYRLYLISEMSPVNIQGVLDLLEGNWGTGVSIVFFKY
TIDGKEKTAKDIVEAIDEETKSVTFKIVEGDLMELYKTFIIIVQVDTKGEHNSVTWTFHY
EKLKEDVEEPNTLMNFCIEITKDIETYHLK

>accession|AEE98392.1|Putative Manioc Glu [Manihot esculenta]

MATAEVVTAQTALPEEKPAEEVKVSEIVTEEAAPAVEPVAEEPKEAEPVAVSEEPKGGDD
APAEVAVETKEVVEVEEAKTVTEEPTVEKTEEEETPKETPEPVVVKETPKKEPTAETV
VEEAPKETTEAATEAEAPAPESAPASAPETPAEEVEVPKEEEGDEKKSEAEVEAEKTE

>accession|AEH31546.1|Putative low molecular weight glutenin [Triticum
aestivum]

MKTFLLIFALLAIVATSAIAQMENSHIPGLERPSQQQPLPPQQTLSSHQQQQPIQQQPQPF

SQQQPCSQQQQPLSQQQPPFSQQQPPFSQQQQQPLSQQQPPFSQQQPPFSQQQQPPF
SQQQPPFSQQQQPVLPOQPSFSQQQLPPFSQQQSPFSQQQQIVLQQQPPFLQQQQPSLPQ
QPPFSQQQQQLVLPQQQIPFVHPSILQQLNPKVFLQQQCSPVAMPQSLARSQMLQQSSC
HVMQQQCCQQLPQIPQOSRYEAIRAI IYSIILQEQQQVQGSIQTPQQQPQQLGQCVSQPQ
QQSQQQLGQQPQQQQLAQGTFLQPHQIAQLEVMTSIALRTLPTMCRVNVPLYRTTTSVPF
GVGTGVGSY

>accession|CBM42660.1|Allergen group 13 grass pollen allergen [Paspalum
notatum]

MAWRKEEGAMTMLRALLVVALAVCGAHAAGDKKKAEEESKKGDS PAAAAASGPGGSFDITK
LGASGDGKTDSTKALEEAWASACGGKQKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGN
LLASTDLSQFKANWIEILRVDNLVITGKGKLDGQGS AVWSKNNSCAKKYDCKILPNSLVLD
FCNKAEVSGISII NSKFFHMNVFQCKDVVIKDVTVSAPGDS PNTDGIHMGDSSGVSII DT
TIGVGDCCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVT DINVKDCTLKSSN
GLRIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVT
FDITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>accession|CBM42661.1|Allergen group 13 grass pollen allergen [Paspalum
notatum]

MAWGAMTMLRALLVVALAVCGAHAAGDKKKAEEESKKGDS PAAAAASGPGGSFDITKLGAS
GDGKTDSTKALEEAWASACGGKQKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGNLLAS
TDLSQFKANWIEILRVDNLVITGKGKLDGQGS AVWSKNNSCAKKYDCKILPNSLVLDFCNK
AEVSGISII NSKFFHMNVFQCKDVVIKDVTVSAPGDS PNTDGIHMGDSSGVSII DTTIGV
GDCCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVT DINVKDCTLKSSNGLRI
KAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVT
FDITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>accession|CBM42662.1|Allergen group 13 grass pollen allergen [Paspalum
notatum]

MAWRKEEGAMTMLRALLVVALAVCGAHAGAKKAEEESKKGDS PAAAAASGPGGSFDITKLG
ASGDGKTDSTKALEEAWASACGGKQKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGNLL
ASTDLSQFKANWIEILRVDNLVITGKGKLDGQQA VWSKNNSCAKKYDCKILPNSLVLD
FCNKAEVSGISII NSKFFHMNVFQCKDVVIKDVTVSAPGDS PNTDGIHMGDSSGVSII DTTI
GVGDCCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVT DINVKDCTLKSTNGL
RIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVT
FDITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>accession|CBM42663.1|Allergen group 13 grass pollen allergen [Paspalum
notatum]

MAWRKEEGAMTMLRALLVVALAVCGAHAGAKKVEESKKGDS PAAAAASGPGGSFDITKLG
ASGDGKTDSTKALEEAWASACGGKQKQITILIPKGDYLTGALNFTGPCTGDVTFQLDGNLL
ASTDLSQFKANWIEILRVDNLVITGKGKLDGQQA VWSKNNSCAKKYDCKILPNSLVLD
FCNKAEVSGISII NSKFFHMNVFQCKDVVIKDVTVSAPGDS PNTDGIHMGDSSGVSII DTTI
GVGDCCISIGPGSTKVNITGVTCGPGHGISIGSLGRYKDEKDVT DINVKDCTLKSTNGL
RIKAYEDAKSVLTCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVT
FDITGTSSTPEAVSLLCSDSTPCSGITMNNVKVEY

>accession|CBM42664.1|Allergen group 13 grass pollen allergen [Paspalum
notatum]

ITGINITGVTCGPGHGISVGS LGRYKDEKDVT DINVKGCTLKKT SNGVRIKSYEDAASV
L SASNLHYENIAMEDVANPIIIDMKYCPNKICTKNGASKVTIKDVT FKNITGTSSTPEAVS
LLCSEKLPCTGVTL DNVKVEYKGTNNKTMAVCENNAKGSSTGCLKELACL

>accession|CBM42665.1|Allergen group 13 grass pollen allergen [Paspalum notatum]
STGINITGVTCGPGHGISVGSLSGRYKDEKDVTDINVKGCTLKKTSNGVRIKSYEDAASVL
SASNLHYENIAMEDVANPIIIDMKYCPNKICTKNGASKVTIKDVTFKNITGTSSTPEAVS
LLCSEKLPCTGVTLDNVVKVEYKGTNNKTMAVCNNAKGSSTGCLKELACL

>accession|CBM42666.1|Allergen group 13 grass pollen allergen [Paspalum notatum]
STKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSTNGLRIKAYEDAKSVL
TCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDITGTSSTPEAVS
LLCSDSTPCSGITMNNVVKVEYSGSNNKTMAVCKNAKGSATGGLKELACF

>accession|CBM42667.1|Allergen group 13 grass pollen allergen [Paspalum notatum]
STKVNITGVTCGPGHGISIGSLGRYKDEKDVTDINVKDCTLKKSSNGLRIKAYEDAKSVL
TCSNIHYENVKMEDAGYPIIIDMKYCPNKICSASAGSKVTVKDVTFKDITGTSSTPEAVS
LLCSDSTPCSGITMNNVVKVEYSGSNNKTMAVCKNAKGSATGGLKELACF

>accession|AEK65120.1|Putative arginine kinase [Amphioctopus fangsiao]
MAEELFKTLQNAKECHSLKHLTKERFDKLGKTKFGGTLADCIRSGCKNPDSGVGIY
ASDPDAYTVFAEVLDAVIMDYHKIDKVHHPIDPDFGDVNNLNIIGLDPSGNMIVSTRVRVG
RSHDSFGFPVLLKDDRIKMEQVSVEALKSLDGELAGSYFPLANMSADVQQLTEDHFLF
NDSDFRLKAASGYDDWPIGRGIYFSENKTFLCWVNEEDHLRLISMQKGGNLGEVYKRLVS
AINKMEKKNLNAFKDNMGYLTFCPSNLGTTMRASVHIKIPKLSQRSDFKSIDKYNLQAR
GIHGEHTESVCGVYDISNKRRMGLTEYEAVTEMMRGVNEIIREETNST

>accession|2XV9_A|Putative Chain A, The Solution Structure Of Aba-1a Saturated With Oleic Acid [Ascaris suum]
GSPEFHHTLESLLDTHLKWLSQEQLKMKKDGKAKKELEAKILHYYDELEGDAKKE
ATEHLKGGCREILKHVVGEEKAAELKNLKD SGASKEELKAKVEEALHAVTDEEKKQYIAD
FGPACKKIYGVHTS

>accession|AEM89226.1|Putative enolase, partial [Fenneropenaeus merguensis]
FTEAMRMGSEVYHHLKAVIKGRFGLDATAVGDEGGFAPNILNNKDALTLIQESIEKAGYT
GKIEIGMDVAASEFYKGENIYDLDFKTANNDGSQKITGDQLRDMYMEFCNEFPVSI

>accession|CCD28287.1|Allergen pollen allergen Phl p 5 [Phleum pratense]
MAVHQYTVALFLAVALVAGPAASYAADLGYGPATPAAPAAGYTPAAPAGAEPAGKATTEE
QKLIIEKINAGFKAALAAAAGVPPADKYRTFVATFGAASNKAFAEGLSGEPKGAEESSKA
ALTSKLDAAAYKLAYKTAEGATPEAKYDAYVATLSEALRIIAGTLEVHAVKPAEEVKVIP
AGELQVIEKVDAAFKVAATAANAAPANDKFTVFEEAFNNAIKASTGGAYESYKFIPALEA
AVKQAYAATVATAPEVKYTVFETALKKAITAMSEAQAQAAKAAAATATATS AVGAATGAA
TAAAGGYKV

>accession|3S7E_A|Allergen Chain A, Crystal Structure Of Ara H 1 [Arachis hypogaea]
MSRNNPFYFPSRRFSTRYGNQNGRIRVLQRFQDQSRQFQNLQNHRIVQIEAKPNTLVLPK
HADADNILVIQQGQATVTVANGNNRKSFNLDDEGHALRIPSGFISYILNRHDNQLRVAKI
SMPVNTPGQFEDFFPASSRDQSSYLQGF SRNTLEAAFNAEFNEIRRVLLEENAGGEQFER
GQRRWSTRSSENNEGVIKVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPLS
NNFGKLFVEVKPDKKNPQLQDLDMMLTCVEIKEGALMLPHFNSKAMVIVVVNKG TGNLELV
AVRKEQQQRGRREEEEDDEEEEGSNREVRRTARLKEGDVFIMPAHPVAINASSELHL
LFGFINAENNRHIFLAGDKDNVIDQIEKQAKDLAFPGSGEQVEKLIKQKESHFVSAR

>accession|AEQ28167.1|Putative tropomyosin [Anisakis simplex]
MDAIKKKMQAMKIEKDNALDRADAAEGKVRQMTDKLERIEEELRDTQKKMMQTENDLDKA
QEDLSTANSNLEEKEKKVQEAEEVAALNRRMTLLEEELERAEERLKLATXKLEEATHTA
DESERVRKVMENRSFQDEERANTVESQLKEXQMLAEADRKYDEVARKLAMVEADLERAE
ERAEAGENKIVELEEEELRVVGNNLKSLEVSEEKALQREDSYEEQIRTVSARLKEAETRAE
FAERSVQKLQKEVDRLEDELVHEKERYKSISEELDQTFQELSGY

>accession|NP_001238443.1|Putative 2S albumin precursor [Glycine max]
MTKFTILLISLLFCIAHTCSASKWQHQQDSCRKQLQGVNLTPEKHIMEKIQGRGDDDDDD
DDDDNHILRTMRGRINYIRRNEGKDEDEEEEGHMQKCCTEMSELRSPKCQCKALQKIMEN
QSEEELEEKQKKMEKELINLATMCRFGPMIQCDLSSDD

>accession|AET05730.1|Putative lipid transfer protein isoform a, partial
[Pyrus communis]
AHAITCSQVSSNLAPCINIVRSGGAVPPACCNGIKTINGLAN'TTPDRQAACNCLKNLAGS
VSGVNPNGNAESLPGKCGVNPYKISTSTNCATVK

>accession|AET05732.1|Putative lipid transfer protein isoform c, partial
[Pyrus communis]
AHAITCSQVSSNLAPCINIVRSGGAVPPACCNGIKTINGLAN'TTPDRQAACNCLKNLAGS
VSGVNPNGNAESLPGKCGVNPCKISTPTNCATVK

>accession|AET05733.1|Putative lipid transfer protein isoform d, partial
[Pyrus communis]
AHAITCSQVTSNLGACIGYVKNGGVPPACCNGIRTVNGLARTTADRQ'TTCNCLKSLAGS
IKGVNPNNAATLPGKCGVNPVFKISTSTNCATVK

>accession|AEV23867.1|Allergen glutathione S transferase class delta
variant 1 [Periplaneta americana]
MTIDFYLLPGSAPCRSVLLAAKAIGVDLNLKVTNLMAGEHLTPEFLKMNPQHTIPTLNDN
GFCLWESRAILSYLADQYGKDDSLYPKDAKKRALVDQRLYFDIGTLYHRFGEYYYYPIYFA
KQAADPEKMKKLEEAFAEFLNKFLESQEFVAGNKLTIADLAIVSSVSTADIMGFVSKYSN
VAKWFEKCKKIVPGYEELNHSGLKFKEMCDNLAKK

>accession|AEV41413.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAIFSSNSATSSSLPSRTTSILLVLFIASLSITDAQVGVVCYGMGLGNNLPPASQVISLYKQ
ANIKRMRIYDPNQAAALQALRGSNIQLMLGVPNSDLQSLTNPSNANSWIQRNVRAFVPSVR
FRYIAVGNEISPVNGGTASLAKFVLPAMRNIYNAIRSAGLQDQIKVSTAIMTLIGNSYP
PSAGAFRGDVRSYLDPIIGFLSSIRSPLLANIYPYFSYAGNPRDISLPYALFTSPSIVVW
DGQRGYKNLFDAMLDALYSALERAGGGSLEVVVSESGWPSAGAF AATFDNGRTYLSNLIQ
HVKGGTPKRPFRIETYLFAMFDENQKQPEFEKHFGLFFPNKQQKYNLNFGAKKNWDISA
DYNATVLLLKSDI

>accession|AEV57471.1|Allergen thaumatin-like protein 2 [Prunus persica]
MMKSQAALLGLTTLAILFFSGAHAAKITFTNKCSYTVWPGTLTGDQKPQLSLTGFELATG
ISNSVDAPSPWGRFFGRTRCSTDASGKFCATADCGSGQVSCNGNGAVPPATLVEITIA
ENGGQDFYDVS LVDGFNLPMVAPQGGTGECKASTCPADVNAVCPAELQVKGSDGSVIAC
KSACLALNQPQYCCTPPNDKPETCPTPEYSKIFKDQCPQAYSAYDDKSSTFTCSARPDY
LITFCP

>accession|B3A0N2.1|Putative RecName: Full=Non-specific lipid-transfer
protein; Short=LTP [Lycium barbarum]
GPLGGCCGGIKKSAAAGISGINYGIAAGLPGKCGVNIPYKISPSTDCSKVQ

>accession|AEX34122.1|Putative 60S acidic ribosomal phosphoprotein P1 [Penicillium crustosum]
MSTAELACSYAALILADDGIEISADKIQTLISAANVQEVEPIWASIFARALEGKDIKELL
TNVGSAGPASAAPAGAAGAAAPAEKAEKEEKEEESDEDMGFGLFD

>accession|AEY79726.1|Putative cyclophilin [Daucus carota]
MANPKVFFDMTIGGTPAGKIVMELYADTTPKTAENFRALCTGEKGTGKSGKPLHYKSSSF
HRVIPGFMCQGGDFTAGNGTGGESIYGAKFADENFERKHTGPGILSMANAGPGTNGSQFF
ICTAKTEWLDGKHVVFGKVVVEGMDVVKAIEKVGSGSGKTSKPVAIADCGQC

>accession|AEY79727.1|Putative isoflavone reductase-like protein [Daucus carota]
MATKILIVGGTGYIGKFIVEASAKAGHPTFVLVREATLTSPDKSQLIDSFKSLGVTFFVHG
DLYDHGSLVKAIKQVDVVISALGHGQLADQDKLLAAIVEAGNVKRFFPSEFGQDVDRVNA
VEPAKSAFAAKALFRRTVEAAGVPFTYVACNFFAGYFLPTLAQAGAAAPPRDKAVILGDG
IPKVAFNKEEDIATYTIKAVDDPRTLKILYVRPPHNTLSFNELLSVWEKKIGKTLEKIY
VPPEQVLKNIQESPVPINVLLSISHSAFVKGDQTSFEIEPSYGVEASALYPDVKYTTVDV
YLSQFV

>accession|AEY79728.1|Putative isoflavone reductase-like protein [Daucus carota]
MATKILIVGGTGYIGKFIVEASAKAGHPTFVLVREATLTSPDKSQLIDSFKSLGVTFFVHG
DLYDHGSLVKAIKQVDVVISTLGHGQLADQDKLLAAIVEAGNVKRFFPSEFGQDVDRVNA
VEPAKSAFAAKAQFRRTVEAAGVPFTYVACDFFAGYFLPTLAQAGAAAPPRDKAVILGDG
IPKVAFNKEEDIATYTIKAVDDPRTLKILYVRPPHNTLSFNELLSVWEKKIGKTLEKIY
VPPEQVLKSIQESPVPINVLLSISHSAFVKGDQTSFEVEPSFGVEASALYPDVKYTTVDE
YLSQFV

>accession|CCF72371.1|Putative lipocalin-Can f 6 allergen [Canis familiaris]
MKLLLLLCLGLILVHAHEEENDVVKGNFDISKISGDWYSILLASDIKEKIEENGSMRVFVK
DIEVLSNSSLIIFTMHTKVNGKCTKISLICNKTEKDGEYDVVHDGYNLFRIIETAYEDYII
FHLNNVNQEQEFQLMELYGRKPDVSPKVKEKFVRYCQGMEIPKENILDLTQVDRCLQARQ
SEAAQVSSAE

>accession|AFA45339.1|Putative arginine kinase [Procambarus clarkii]
MADAATIAKLEEGFKKLEAATDCKSLLKKYLSKSIKIFDSLKAKKTGLGATLLDVIQSGVEN
LDSGVGIYAPDAEAYSFLFAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKQFV
ISTRVRCGRSLEGYFPNCLTEAQYKEMEEKVSSSTLSGLEGELKGTYYPLAGMTKEVQQK
LIDDHFLFKEGDRFLQAANACRYWPVGRGIYHNDNKTFLVWCNEEDHLRIISMQMGDLG
QVYRRLVSAVNDIEKRVPFSHHDRLGFLTFCPTNLGTTIRASVHIKLPKLAANREKLEEV
AARYSLQVRGTRGEHTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEMA

>accession|AFA45340.1|Putative arginine kinase [Scylla paramamosain]
MADAIVIEKLEEGFKKLEAATDCKSLLKKYLTKSVFDQLKGKKTSLGATLLDVIQSGVEN
LDSGVGVYAPDAEAYTLFAPLFDPIIEDYHKGFKQTDKHPNKDFGDVNQFVNVDPDGKQFV
ISTRVRCGRSMEGYFPNCLTEAQYKEMESKVSSTLSNLEGELEKGTYYPLTGMTKDQVQQK
LIDDHFLFKEGDRFLQAANACRYWPTGRGIYHNDNKTFLVWCNEEDHLRIISMQMGDLG
QVYRRLVSAVNEIEKRVPFSHHDRLGFLTFCPTNLGTTVRASVHIKLPKLAANREKLEEV
AGKYSLQVRGTRGEHTEAEGGVYDISNKRRMGLTEFQAVKEMQDGILELIKIEKEMQ

>accession|3SMH_A|Allergen Chain A, Crystal Structure Of Major Peanut Allergen Ara H 1 [Arachis hypogaea]

SRNNPFYFPSRRFSTRYGNQNGRIRVLQRFQDQSRQFQNLQNHRIVQIEAKPNTLVLPKH
ADADNILVIQGGQATVTVANGNNRKSFNLDDEGHALRIPSGFISYILNRHDNQNLRVAKIS
MPVNTPGQFEDFFPASSRDQSSYLQGFSRNTLEAAFNAEFNEIRRVLLEENAGGEQEERG
QRRWSTRSSENEGVIKVSKEHVEELTKHAKSVSKKGSEEEGDITNPINLREGEPLDSN
NFGKLFVVKPKKPNPQLQDLDMMLTXVEIKEGALVLPHFNSKAMVIVVVKGTGNLELVA
VRKEQQQRGRREEEEDDEEEEGSNREVRRYTARLKEGDFVIMPAAHPVAINASSELHLL
FGINAENNHRIFLAGDKDNVIDQIEKQAKDLAFPGSGEQVEKLIKQKESHFVSARP

>accession|P86137.2|Allergen RecName: Full=Non-specific lipid-transfer
protein 1; Short=LTP1; Short=nsLTP1; AltName: Allergen=Act d 10.01
[Actinidia deliciosa]
AVSCGQVDTALTPCLTYLTKGGTPSTQCCSGVRSLSKSMGTGKVPDRQAACNCLKQAAARY
QGIKDAAAALSQKCGVQLSVPISRSTDCSKIS

>accession|P85204.1|Allergen RecName: Full=Non-specific lipid-transfer
protein 1; Short=LTP1; AltName: Allergen=Act c 10 [Actinidia chinensis]
AVSCGQVDTALTPCL

>accession|P85206.1|Allergen RecName: Full=Non-specific lipid-transfer
protein 2; Short=LTP2; AltName: Allergen=Act d 10.02 [Actinidia
deliciosa]
TVSCGQVDTALTPCLTYLTKGGTPSTQCCSGVRSLSKSMGTGKVPDRQAACNCLKQAAARY
QGIKDAAAALSQKCGVQLSVPISRSTDCSKIS

>accession|CBL79147.1|Allergen aldolase A [Salmo salar]
MPHAFPLTPDQKKELSDIAHKIVAQKGILAADESTGSAKRFQSINTENTEENRRLYR
QLLFTADERAGPCIGGVIFFHETLYQKTDAGKTFPQHVKSRGWLVGKVDKGVVPLAGTN
GETTTQGLDGLYERCAQYKKGCDFAKWRCVLKITSTTPSRLTIMENCNVLARYASICQM
HGIVPIVEPEILPDGDHDLKRTQYVTEKVLAAAMYKALSDHHVYLEGTLKPNMVTAGHSC
SHKYTHQDIAMATITALRRTVPPAVPGITFLSGGQSEEEASINLNMVQCPLHRPWAITF
SYGRALQASALKAWGGKPKNGKAAQEEFIKRALANSLACQKQYVSSGDSAAAGDSLFFVAN
HAY

>accession|CBL79145.1|Allergen enolase [Thunnus albacares]
MSILKIHAREIFDSRGNPTVEVDLYTKKGLFRAAVPSGASTGIYEALERDNDKTRYMGK
GVKRAVKYINEFLAPALCNQDVTVIEQEKIDKMLMDMGTENKYKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGNPEVILPVPAFNVINGGSHAGNKLAMQEFMILPVGASSFKD
AMRIGAEVYHNLKNVIKEKYGKDATNVGDEGGFAPNILENKEALKLLKNAIGKAGYTDKI
VIGMDVAASEFYKGGKYDLDFKSPDDPSRYIPSDKLADLYKGFVKDYPVVSIEDPFDQDD
WEAWSKFTAETSIQVVGDDLTVTNPKRIAKGVAEKSCNCLLLKVNQIGSVTESLQACKMA
QSSGWGMVSHRSGETEDTLISDLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEEELGAK
AKFAGKNFRHPI

>accession|CBL79146.1|Allergen enolase [Salmo salar]
MSILKIHAREIFDSRGNPTVEVDLYTKKGLFRAAVPSGASTGIYEALERDNDKTRYLKG
GVKRSVKYINEFLAPALCNQDVSVLEQEKVDQLMLMDMGTENKSKFGANAILGVSLAVCK
AGAAEKGVPLYRHIADLAGNPNVILPVPAFNVINGGSHAGNKLAMQEFMTLPVGASTFKE
AMRIGAEVYHNLKNVIKKNYGQDATNVGDEGGFAPNILENKEALELLKEAIGKAGYTDKI
VIGMDVAASEFYKDGKYDLDFKSPDDPSRYITPDQLGDLYKSFVKDYPVVSIEDPFDQDD
WAAWSKFTAETSIQVVGDDLTVTNPKRIAKGVADKACNCLLLKVNQIGSVTESLQACKMA
QTNGWGMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEEELGDK
AVFAGKNFRHPI

>accession|AFJ68065.1|Allergen Der p 1 variant, partial
[Dermatophagoides pteronyssinus]
EARPSSIKTFEELYKKA FNKSYATFEDEEAARKNFLESVKYVQSNGGAINHLSDSLDEFK
NRF LMSAEAFEHLKTQFDLNAETNAC SINGNAPAEIDL RQMRTVTPIRMQGGCGSCWAFS
GVAATESAYLAYRNQSLDLAEQELVDCASQHGCHGDTIPRGIEYIQHNGVVQESYRYVA
REQSCRPNQAQRFGISNYCQIYPPNVNKIREALAQTHSAIAVIIGIKDLDAFRHYDGRTI
IQRDNGYQPNYHAVNIVGYSNAQSVDYWIVRNSWDTNWGDNGYGYFAANIDLMMIEEYPY
VVIL

>accession|AFJ68066.1|Allergen Der f 1 variant, partial
[Dermatophagoides farinae]
EARPASIKIFEEFKKAFNKNYATVEEEEVARKNFLES LKYVEANKGAINHLSDSLDEFK
NRYLMSAEAFEQLKTQFDLNAETSACRINSVNVPS ELDLRLRSLRTVTPIRMQGGCGSCWAF
SGVAATESAYLAYRN TSLDLSEQELVDCASQHGCHGDTIPRGIEYIQQNGVVEERSYPYV
AREQQCRPN SQHYGISNYCQIYPPDVKQIREAL TQHTAIAVIIGIKDLRAFQHYDGRT
IIQHNDNGYQPNYHAVNIVGYGSTQGV DYWIVRNSWDTTWGDSGYGYFQAGNNLMMIEQYP
YVIM

>accession|AFJ68067.1|Allergen Der p 2 variant 1, partial
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSEPCIIHRGKPFQLEALFEANQNSKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNV PKIAPKSENVVVTVKVLGDNGVLACA
IATHAKIRD

>accession|AFJ68070.1|Allergen Der p 2 variant 4, partial
[Dermatophagoides pteronyssinus]
DQVDVKDCANHEIKKVLVPGCHGSETCIIHRGKPFQLEAVFEANQNTKTAKIEIKASIDG
LEVDVPGIDPNACHYMKCPLVKGQQYDIKYTWNV PKIAPKSENVVVTVKVMGDDGVLACA
IATHAKIRD

>accession|AFJ68072.1|Allergen Der f 2, partial [Dermatophagoides
farinae]
DQVDVKDCANNEIKKVMVDGCHGSDPCIIHRGKPF TLEALFGANQNTKTAKIEIKASLDG
LEIDVPGIDTNACHFVKCPLVKGQQYDIKYTWNV PKIAPKSENVVVTVKLIGDNGVLACA
IATHGKIRD

>accession|AFJ97274.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVM LLLIFFTASLGITDAQVGV CYGMQGNLPSVSEVIALYK
QSNIKRMRIYDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RFRYIAVGNEISP VNGGTAWLAQFVLPAMRNIHDAIRSAGLQDKIKVST AIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSRSPLLANIYPYFTYAYNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAF AATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHFGLFFPDKR PKYNLNFGAEKNWDIS
TEHNATILFLKSDM

>accession|AFJ97275.1|Allergen beta-1,3-glucanase [Hevea brasiliensis]
MAISSSTSGTSSSLPSRTTVM LLLIFFTASLGITDAQVGV CYGMQGNLPSVSEVIALYK
QSNIKRMRIYDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWVQKNVRGFWSSV
RIRYIAVATKLV PVNGGTAWLAQFVLPAMRNIHDAIRSAGLQDQIKVST AIDLTLVGNSY
PPSAGAFRDDVRSYLDPIIGFLSSIRSPLLANIYPYFTYADNPRDISLPYALFTSPSVVV
WDGQRGYKNLFDATLDALYSALERASGGSLEVVVSESGWPSAGAF AATFDNGRTYLSNLI
QHVKGGTPKRPNRAIETYLFAMFDENKKQPEVEKHSGLFFPDKR PKYNLNFGAEKNWDIS
TEHDATILFLKSDM

>accession|3V0R_A|Allergen Chain A, Crystal Structure Of Alternaria Alternata Allergen Alt A 1 [Alternaria alternata]
MDTASCPVTTEGDYVVKISEFYGRKPEGTYYNLSLGFNIKATNGGTLDFTCSAQADKLEDH
KWYSCGENSFMDFSFDSDRSGLLLKQKVSDDITYVATATLPNYCRAGGNGPKDFVCQGVA
DAYITLVTLPKSS

>accession|AFM77001.1|Putative pathogenesis related protein 5, partial [Malus x domestica]
LTGFELASKASRSVDASSPWSGRFWGRTRCSTDAAGKFTCETADCGSGQVACNGAGAVPP
ATLVEITIAANGGQDYDVSLVDGFNLPMSPVAPQGGTGECKPSSCPANVNAACPAQLQVK
AADGSVISCKSACLAFGDSKYCCTPPNNTPETCPPTSEIFEKQCPQAYSAYDDKNST
FTCSGGPDYVITF

>accession|CCK33471.1|Putative wheat serine proteinase inhibitor like antigen [Triticum aestivum]
MSPVVKKPEGRNTDTSDDHNNQKTEWPELVGKSVVEEAKKVILQDKSEAQIVVLPVGTIVTM
EYRIDRVRLFVDSLKIAQVPRVG

>accession|3TSH_A|Allergen Chain A, Crystal Structure Of Phl P 4, A Grass Pollen Allergen With Glucose Dehydrogenase Activity [Phleum pratense]
YFPPPAAKEDFLGCLVKEIPRLLYAKSSPAYPSVLGQTIIRNSRWSSPDNVKPLYIITPT
QVSHIQSAVVCGRRHVSRIRVRSGGHDYEGLSYRSLQPETFVAVDLNKMRAVWVDGKART
AWVDSGAQLGELYAIYKASPTLAFPAVCPTIGVGGNFAGGGFGMLLRKYGIAAENVID
VKLVDANGKLDHKKSMGDDHFWAVRGGGGESFGIVVAWQVLLPVPPTVTIFKISKTVSE
GAVDIINKWQVAPQLPADLMIRIIAQGPKATFEAMYLGTCCKTLTPLMSSKFPELGMNPS
HCNEMSWIQSIPFVHLGHRDALEDDLNRQNSFKPFAEYKSDYVYQPFKTVWEQILNWT
LVKPGAGIMIFDPYGATISATPESATPFPHRKGVLFNIQVNYWFAPGAAAAPLSWSKDI
YNYMEPYVSKNPRQAYANYRDIDLGRNEVVNDVSTYASGKVGQKYFKGNFERLAITKKG
VDPTDYFRNEQSIPPLIKKY

>accession|P86360.1|Putative RecName: Full=Allergen Tha p 2; AltName: Allergen=Tha p 2; Flags: Precursor [Thaumatococcus panyocampa]
MKLLIFAILIALSSSVPQLSEKAEAVDLAYQEKNNLFDLGSVAGDILSRSGCHVSFGCH
KGYCWAGCGDPTNPWSWGENWCYTTKSYSQSYSVQCTQDSECDGCWKCGGPCSA

>accession|P86888.1|Allergen RecName: Full=Peamaclein; AltName: Allergen=Pru p 7 [Prunus persica]
GSSFCDKCGVRCISKAGYQERCLKYCGICCEKCHCVPSGTYGNKDECPCYRDLKNSKGNP
KCP

>accession|AFV53352.1|Putative tropomyosin [Oreochromis mossambicus]
MDAIKKKQMLKLDKENALDRAEQAESDKKAAEDRSKQLEDDLVALQKLLKGTEDELDKY
SEALKDAQEKLELAEKIATDAEAGEVASLNRRIQLVVEELDRAQERLATALKLEEAEEKAA
DESERGMKVIENRAMKDEEKMELOEIQKKEAKHIAEEADRKYEEVARKLVIIIEGDLERTE
ERAELSEGKCSELEEEELKTVTNNLKSLEAQAQEKYSQKEDKYEIEIKALTDKLEAETRAE
FAERSVAKLEKTIDDLEDELYAQLKLYKAISEELDHALNDMTSI

>accession|BAB21619.2|Putative allergen Gly m Bd 28K [Glycine max]
MGNKTTLLLLLFLVCHGVATTTMAFHDDDEGGDKKSPKSLFLMSNSTRVFKTDAGEMRVLK
SHGGRIFYRHHMIGFISMEPKSLFVPQYLDNLIIIFIRRGAKLGFYDDELAERRLKTG
DLYMIPSGSAFYLVNIGEGQRLHVICSIDPSTSLGLETFQSFYIGGGANSHSVLSGFEP
ILETAFNESRTVVEEIFSKELDGPIMFVDDSHAPSLWTKFLQLKDDKEQLKMMQDQE
EDEEEKQTSRWRKLLLETVFGKVNEKIENKDTAGSPASYNLYDDKKADFKNAYGWSKALH
GGEYPLSEPDIQVLLVKSAGSMLAPHVNPISDEYTVLSGYGELHIGYPNGSRAMKTK

IKQGDVFFVPRYFFFCQVASRDGPLEFFGFSTARSARKNKPQFLAGAASLLRRTLMGPELSAA
FGVSEDTLRRRAVDAQHEAVILPSAWAAPPENAGKLMKEEENAIRESFANDVVMDVF

>accession|AGA84056.1|Allergen profilin [Arachis hypogaea]
MSWQTYVDDHLLCEIEGNHLSSAAILGQDGSVWAQSSNFPQFKPEEITAIMNDFAEFGSL
APTGLYLGGTKYMIQGEPTVIRGKKGPGGVTIKKTNQALIIGIYDEPMTPGQCNMIVE
KLG DY LIDTGL

>accession|AGC39164.1|Putative kiwellin [Actinidia deliciosa]
MAQLALLLLLSLFLTLISLAPPGASISSCNGPCRDLNDCDGLICIKGKCNDDPQVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39165.1|Putative kiwellin [Actinidia deliciosa]
MAQLALLLLLSLFLTLISLAPPGTSSISSCNGPCRDLNDCDGLICIKGKCNDPPEVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39166.1|Putative kiwellin [Actinidia deliciosa]
MAQLALLLLLSLFLTLISLAPPGASISSCNGPCRDLNDCDGLICIKGKCNDDPQVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39167.1|Putative kiwellin [Actinidia deliciosa]
MAQLSLLVLSLFLTLISLPPPGASISSCNGPCRDLNDCDGLICIEGKCNDPPEVGTHIC
RGTTPSPQPGGCKPSGTLTCRGKSHPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39168.1|Putative kiwellin [Actinidia chinensis]
MAQLSLLLLLSLFLTLISLPPPGASISSCNGPCRDLNDCDGLICIKGKCNDPPEVGTHIC
RGTTPSPQPGGCKPSGTLTCQGKSHPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLNKNVGVVDITWSMA

>accession|AGC39169.1|Putative kiwellin [Actinidia eriantha]
MAQLSLLLLLSLFLTLISLAPSGASISSCNGPCRDLNDCDGLICIKGKCNDPPEVGTHIC
RGTTPSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39170.1|Putative kiwellin [Actinidia eriantha]
MAQLSLLLLLSLFLTLISLAPSGASISSCNGPCRDLNDCDGLICIKGKCNDPQVGTHIC
RGTTPSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECDSDRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39171.1|Putative kiwellin [Actinidia eriantha]
MAQLSLLFLSLFLTLISLAPSGASISSCNGPCRDLNDCDGLICIKGKCNDPPEVGTHIC
RGTTPSPQPGGCNPSGTLTCRGKSYPTYDCSPPVTSSTPAKLTNNDPSEGGDGGGPSECD
ERYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECDSDRHGCDKEHAGQP

PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39172.1|Putative kiwellin [Actinidia arguta]
MAQLTLLLLLSLFLTLISLPPPGASISSCNGPCRDLNDCDGLICIKGKCNDPEVGT
GGTTPSPQPGSCNPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGG
SECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECD
SRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39173.1|Putative kiwellin [Actinidia arguta]
MAQLTLLLLLSLFFTLISLPPPGASISSCNGPCRDLNDCDGLICIKGKCNDPEVGT
GGTTPSPQPGSCKPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGG
SECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECD
SRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39174.1|Putative kiwellin [Actinidia arguta]
MAQLTLLLLLSLFLTLISLPPPGASISSCNGPCRDLNDCDGLICIKGKCNDPEVGT
GGTTPSPQPGGCNPSGTLTCQGKSYPTYDCSPPVTSSTPAKLTNNDSEGGDGGG
SECD
ESYHSNNERIVALSTGWYNGGSRGCMIRITASNGKSVSAKVVECD
SRHGCDKEHAGQP
PCRNNIVDGSNAVWSALGLDKNVGVVDITWSMA

>accession|AGC39176.1|Allergen thaumatin-like protein [Actinidia
chinensis]
MSTFKSLSLSALLFIAFLFTCARGATFNI INNC PFTVWAAVPGGGKRLDRGQNW
IINPG
AGTKGARVWARTGCNFDGAGRKCQGTGDCNGLLQCQAFGQPPNTLAEYALNQFN
NLDFFD
ISLVDGFNVAMEFSPTS GCGTRGIKCTANINEQCPNELRAPGGC
NNPCTVFKTDQYCCNS
GNCGPTDYSRFFKTRCPDAYSYPKDDQTSTFTCPGGTNYKVVFCP

>accession|AGC56216.1|Putative triose-phosphate isomerase
[Dermatophagoides farinae]
MGRKFFVGGNWKMNNGKTAIKEIVDFLKNGLDSDNVEVVVGVPAIYMLCKNILPD
NIRV
AAQNCYKVDKGAFTGEISPAMIKDVGAEWVILGHSERRNVFGESDQLIGEKVEHA
LQEG
LHVIACIGELLEEREAGKTTEVVFRQTQVISKHVKDWFKVVLAYEPVWAIGTKT
ASPQQ
AQEVHQKLRQCFSENVSPQIAETIRI IYGGSVTANNAKELASQADVDGFLVGG
ASLKPEFV
QIVNARQ

>accession|AGC56218.1|Putative heat shock protein 70 [Dermatophagoides
farinae]
MSKTPAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVGFDTDERLIGDAAKNQ
VA
MNPSTVFDARLIGRKFDETTVQADMKHWPFKVIEKGNKPAIEVEFKGETKQFIPEE
IS
SMVLVKMRETAEAYLGGTVNNAVITVPAYFNDSQRQATKDSGLIAGLNVLRIINEPT
AAA
IAYGLDKKGGAGERNVLI FDLGGGTFDVSLLTIEEGIFEVKSTAGDTHLGGEDFD
NRLVN
HFVKEFKRKHKKDLTTNARALRRLTSCERAKRTLSSAAQTSIEIDSLFEGIDFYTS
ITR
ARFEELCADLFRSTMEPVERVLRDAKTDKSSVNEIVLVGGSTRIPKIQRLVADFFN
KDPN
KSINPDEAIAYGAAVQASILSGDTSSKSTNEILLLDVAPLSLGIETAGGVMTALIKR
DTT
IPTRSPRLSLPTPTTSLVSRFRSTRVSVLAPRTTTLVSSSSPVSPCSSWCSSDRGH
FDV
DANGIMNVGAVEKGTGKTNKITITNDKGRLSKEEIERMLAEAEKYKAEDEAEAAAR
IHAKN
GPESYAYSLRNTVNEGKLSISDSKKEKLRARLRLSTGSTTRPPARRSTTLNRRSSR
VL
PTPSFWLPTVVLAVVVPPLVVTPLVALVVLTRLRSALRSLTKKVFNGVFLFPVLF
DVS

>accession|AGC56219.1|Allergen ferritin [Dermatophagoides farinae]
MAANPESTTKTSRVRMNIQINLEFYASYVYQQMAYHFNRRDDVALPGFEKFFDVSSKE
ERE
HAERFMKLQNRGGRIVLDIHKPQQQDWSGLEAMRAALELEKTVNQALLDLHAVATKH
NDAQFADFIETHYLTEQVEAIKKLADYITNLERCGLGEYLFDRHTLHSS

>accession|B3EWE5.3|Putative RecName: Full=Thaumatococcus danianus thaumatin-like protein 2;
AltName: Full=Basic thaumatin-like protein [Manilkara zapota]
ATFDIQNNC

>accession|AGC60020.1|Putative Anisakis 2 allergen [Anisakis pegreffii]
MSDTLYRSPSMAIRSSTADMGALTSMSVADLGSLTRLEDKIRLLQDDFESERELRNRIER
ERADLSVQLIALTDRLQDAECATDSQIESNRKREVELSKLRKLLSEESQLENEEDAMNVLRK
KHQDVCLDYTEQIEQLQKKNKIDRERQRLQHEVIELTATIDQLQKDKHVAEKMAQKFEQ
QTIELSNKVEDLNKHVNDLAQQRQRLQAENSDLLAEIHDQKVQLDNLQHVYQLAQQLLE
SRRRLEDAERERSQMQAQLHQVQLELDSVRVALDEESAARVEAEHKLSLANTEITQWKS
FDAEVALHHEEVEDLRKKMMQKQAEYEEQIEIMLQKVSQLEKAKARLQSEVEVLIVDLEK
AQNTIAILERAKEQLEKQVLEMKSRIDELLVELEAAQREARAALAEQKMKQLYEKAVEQ
KEALARENKQLQDDLHEANEALADANRKLHELDLENARLAGEIRDLQVALKESEAARRDA
EARAQRALAEQVRIEMERRLQEKKEEMEALRKSQFEIDRLTAALADAEARMKAEIAR
LRKKYQAEIAELEMTVDNLNRANLEAQTIKKQSEQIIQLQANLEDTQRQLQOTLDQYAL
AQRKISALSALAELECKTALDNARARKQVEADLEEAHVRIIDLTSINSNLTAIKNKLETE
LSTAQADLDEVTKELHAADERANRALADAARAVQELHEEQEHSMKIDALRKSLEEQVKQL
QVQIQEAEAAALLGGKRVIKLETRIRDLEVALDEETRRHKETQSALRKKDRRIKEVQMQ
IDEEHKMFVMAQDADRMLKLNQIKRQLGAEAMTMQNLQVRRYQRELEDAEGRADQA
ESSLNLIRAKHRGTVAVGKATDVYVVEED

>accession|AGC60026.1|Putative Anisakis 12 allergen [Anisakis pegreffii]
MVKNLPPSVREQCIESQIVIRNCKEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCKTFTTEENCIEWKDECAPSEAAEKKDENSLEVPETFSQCFKSQV
VMQQCMSKGGEECSKIQKECVDAFGTTPVTYAANGAYQMAAPLHRCIENGGWMMKMCSTWI
NATICERWKQECSDGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>accession|AGC60027.1|Putative Anisakis 12 allergen [Anisakis pegreffii]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIKWKDECAPSEAAEKKDENSLEVPETFSQCFKSQV
VMQQCMSKGGEECLKIQKECVDAFGTTPVTSANGAYQMAAPLHRCIENGGWMMKMCSTWI
NATICERWKQECSDGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAAATDAPT
VDANPPIFTSKMIRCVKRKMAKGL

>accession|AGC60028.1|Putative Anisakis 12 allergen [Anisakis pegreffii]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTPENCIKWKDECAPSEAAEKTENSLEVPETFSQCFKSQV
VMQQCMSKGGEECLKIQKECVDAFGTTPVTSANGAYQMAAPLHRCIENGGWMMKMCSTWI
NATICERWKQECSDGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>accession|AGC60029.1|Putative Anisakis 12 allergen [Anisakis simplex]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIKWKDECAPSEAAEKKDENSLEVPETFSQCFKSQV
VMQQCMSKGGEECSKIQKECVDAFGTTPVTYAANGAYQMAAPLHRCIENGGWMMKMCSTWI
NATICERWKQECSDGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAAATDAPT
VDANPPIFTSKMNTCVKRKMAKGL

>accession|AGC60030.1|Putative Anisakis 12 allergen [Anisakis simplex]
MVKNLPPSVREQCIESQIVIRDCEEKKYGENCAELIKQCVTITGAPPVTIGGSGQYRVAT
SLRDCIKKGGYMGYCKTFTTEENCIEWKDECAPSEAAEKTENSLEVPETFSQCFKSQV
VMQQCMNEGEECSKIQKECVDAFGTTPVTYAANGAYQMAAPLHRCIENGGWMMKMCSTWI
NATICERWKQECSDGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQEECVAAATDAPT

VDANPPIFTSKMIRCVKRKMAKGL

>accession|AGC60031.1|Putative Ani s 12 allergen [Anisakis simplex]
MVKNLPPSVREQCIQSIVIRDCEEKKGNGENCAELIKQCVTITGAPPVTIGGSGQYRVAS
SLRDCIKKGGYMGYCSNFTTHENCIKWKDECAPSEAAEKTENSLEVPETFSQCFKSQV
VMQQCMNKGEEESKIQKECVDAFGTTPVTYAANGAYQMAAPLHRCIENGGWMMKMCSTWI
NATICERWKQECSGDKDAELPPNFSQCIQTQMVMLQCNLKFQDKCKALQDECVAATDAPT
VDANPPIFTSKMITCVKRKMAKGL

>accession|AGC60035.1|Allergen Ani s 1 allergen [Anisakis simplex]
MDKGTPTQEGGVKPSVAWWHDDKTGICLSFKYTGCGGNANRFTTIKNCEQHCKMPDRGA
CALGKKPAEDSNGEQLVCAGMREDKCPNGYQCKMMAFMGLCCPTKEEELFAREYEGVCKS
GKPVKMDRSGSGWMMTILGKSCDDQFCPEDAKCEQGLFANCK

>accession|AGC60036.1|Allergen Ani s 1 allergen [Anisakis simplex]
MDKGTPTQEGGVKPSVAWWHDDKSGICLSFKYTGCGGNANRFTTIKNCEQHCKMPDRGA
CALGKKPAEDSNGEQLVCAGMREDKCPNGYQCKMMAFMGLCCPTKEEELFAREYEGVCKS
GKPVKMDRSGSGWMMTILGKSCDDQFCPEDAKCEQGLFANCK

>accession|B3EWS0.1|Putative RecName: Full=Thaumatococcus-like protein 1a;
AltName: Full=Acidic thaumatococcus-like protein; AltName: Full=Beta-1,3-
glucanase [Manilkara zapota]
ATFDIVNQCTFT

>accession|CCP19647.1|Allergen profilin allergen [Parietaria judaica]
MSWQTYVDDHLMCEIEGNHLTAAAILGQDGSVWAQASAFPQFKPEEIAAIVKDFEFPGL
APTGLFLGGAKYMIQGEAGVVIRGKKGSGGVTVKKTGQALVIGIYDEPMPAGQCNMIVE
RLGDYLIETGL

>accession|AGE44125.1|Allergen tropomyosin [Portunus pelagicus]
MDAIKKKQAMKLEKDDAMDRADTLEQQNKEANIRAEKAEVHNLQKRMQQLENDLDQV
QESLLKANTQLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERMKRVLENRSLSDERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRLEDELVNEKEKYKSTTDELDDQAFSELSGY

>accession|E1U332.1|Putative RecName: Full=Isoflavone reductase-like
protein; AltName: Full=Pollen allergen Ole e 12.01; AltName: Allergen=Ole
e 12.01 [Olea europaea]
MADKTKILIIIGGTGYIGKFIVEASAKSEHPTFALARESTISDPVKGKIIQGFKNSGVITL
TGDLYDHESLVKAIKQVDVISTVGLQLADQVKIIAAIKEAGNVKRFPSDFGTDVDRD
HAVEPAKSSFEIKSQIRRAIEAEGIPYTFVSANYFAGYSLPTLVQPEVTAPPRDKVIILG
DGNKAVFNEENDIGTYTIKAVDDARTLNKILYIKPPKNIYSFNLVALWEKKIGKTLEK
IYVPEEQVLKQIQESPPFINIVMAINHSFAVKGDLTNFKIEPSFGVEASELYPDVKYTTV
EEYLDQFV

>accession|E3SU11.1|Putative RecName: Full=Thaumatococcus-like protein;
AltName: Allergen=Ole e 13; Flags: Precursor [Olea europaea]
MNFSKNLPLLVSLWAIFFAYTHAATFDIVNQCTYTVWAAASPGGGRRLDQGQSWNINVA
PGTTQARIWGRNTCNFDANGRGQCEGTDCNGLLECQGYGRPPNTLAEFALNQPNNDLDFVD
ISNVDGFNIPLEFSPTTNVCRRLVCNAPIVQQCPSELRTPGGCNNPCTVFNTNEYCCTNG
PGSCGPTPLSRFFKERCPDAYSYPQDDPTSLFTCPAGTNYRVVFCP

>accession|AGG10560.1|Allergen Tyr p 8 allergen [Tyrophagus putrescentiae]

MSSKPVLYGWDIRGLAQPIRLLLLAYLDVDYEDKRYQLGANFDRSAWLTEKFNLGLDFPNL
PYYIDGNVSKLSQTLAILRYIGRKYKLTGANEPPEELRVSLVEQQVVDGNQSLSRVAYDPNA
DKLKPDLFKTLPSVSKQLSHFLGNSPFVAGTSITYVDFWLVEYLVKLSVLVPEVFGQFDN
LKKFVERIESLPRVSVYIKAQQPKLFNGPMAKWNGQYA

>accession|XP_004232333.1|Allergen PREDICTED: non-specific lipid-transfer protein 2 [Solanum lycopersicum (Lycopersicon esculentum)]

MKMTKVCFSFVAVMLVMILVCDQFGANEAAATCSASQLSPCLGAIQGGTAPSQDCCARLKNQ
QPCICGFMKDPNLRQYVNSPNARKVAGQCGVSIPSC

>accession|CCU98198.1|Allergen allergen [Malassezia sympodialis ATCC 42132]

MGVQVISSYDQFKQVTGGDKVVVIDFWATWCGPCKMIGPVFEKISDTPAGDKVGFYKVDV
DEQSQIAQEVGIRAMPTFVFFKNGQKIDTVVGADPSKLAQAITQHSA

>accession|CCU99206.1|Putative allergen [Malassezia sympodialis ATCC 42132]

MSNVIKKVFNTDKAEAEAGSKVADAPQEAGHKGEGFLHDAKDRLQGFAGHGHNAQNAASG
VAGSAGAGGAPSVPSANVDVTNPVNDASVQGGVEAPRSWSTQLPQSQSVADTTGATSAGR
NNLTQTTSTGSGVNVAAGNVDQDVQHLPVTRHVHHRHEIEELLREREHHIHQHHIQHHV
QPVVDSEHLAEQIHSRVVPQTTVREVHANTDKDAALMRAVAGNPKDTFTQAAIDRSVIDK
GETVREIVHHHHIHNVQPIIEKETHEYHRIRTTIPTTHITHEAPIVHESTAHQPIRKEDF
LKGGGVLTTSTRSIEEAGLLNLGNNQRTVEGETYTGGLPLSQ

>accession|CCU99457.1|Putative allergen [Malassezia sympodialis ATCC 42132]

MSATTGSQAPNTTFTYIPWAPELDSGKVCVGPQTFKAHDRWKGKKVVVVAIPGAFTPVCH
QNHIPGFVEKINELKAKGVDEVVVIADVNDVMSGSGVTVGGKDQIVYACDNDLAFSKAL
GGTLDLTSGGMGVRTARYAVVLDLKITFYFGMDEGNMGAPEKSSVDAVLAQL

>accession|CCV00099.1|Putative allergen [Malassezia sympodialis ATCC 42132]

MTEHTLPPLPYEYNALEPFISADIMMVHHGKHHQTYVNNLNASTKAYNDAVQAQDVLKQM
ELLTAVKFNNGGHVNHALFWKTMAPQSQGGGQLNDGPLKQAIKDFEFGDFEKFAAFTAKA
LGIQSGWCWLGLSKTGSGLDLVVAKDQDTLTTTHPIIGWDGWEHAWYLQYKNDKASYLKQ
WNVVNWSEAESRYSEGLKASL

>accession|CCU97864.1|Putative allergen [Malassezia sympodialis ATCC 42132]

MSSVVGLDIGNSSKIGVARARGVDIVSNEVSNRSTPSLVSFGQKARLLGEGAATAQTSN
FKNTVGSLSKRLIGRTFQDESIQTYEKPFFVNAELVDAKGEVGVKVRVFQNEEHIFSATQLLA
MYLGLRDTTQNELGGSGVSDVLSVPIWFTDAQRRAMLHAAEIANLNPLRVMNEPTATA
LGYGITKTDLPEPDSPRNVIFVDIGHSSYQVSVVAFCKGQLTVLGAWADPNFGGRNFDRV
LMEHFEEFKGKYKIDVFFNPKATFRLAAGCERLKKVLSANTLAQLNVEESLMNDIDAASQ
LKRDEFESLIAPYLERVNGPLDAALSQGLTKDEIHSVELVGGSSRVPALKERIAAAWYGK
PLSYTLNQDEAIVRGCTLACATLSPVFRVREFSVHDISSYPKIVSWEPAPDVPDEENELV
VFNTNPNPVPSTKILTFYRKEPFLDATYADASTLPKGTNPWLGRVTIKNVAPNEKGEHSI
VKVKARLNLHGVLNVESAYTVDEIEKEEEVPPVDPNAAEDAEPKTEKKIVKKLQRKDDL
IVSGIGLLDPTLLAELKEREGQMYAADKLVADTEDRKNAL EYIYDTRSKLDERYATFVQ
SEEKELLLAMLAESDLYTEEGEDATKSAYVSRLETQKVGAPIHFRWKEHEERPAAAA
QLREVVNKYMVSFENEPEKYDHLSDDDKTKVIEKAATVGVKWLDDYMYKQSELPKNVDPKL
TSEEILKKKDDVIYVCTPILTKPKPRVPVDTSKPEENAQTSNENEKQGDMDVD

>accession|AGI78542.1|Putative ubiquinol-cytochrome c reductase binding protein-like protein [Dermatophagoides farinae]
MVHLTKTLRFINNPGRKFFYYGLQGYNKYGLYDDFYDYTDAAHLEAVRRLPPDLYDQHT
YRLVRSQLEITKQFLPKQWPSYEEDMDKGRFLTPYLDEVMKEKKEKEEWINFLSKD

>accession|AGL34967.1|Putative metallothionein type 2 [Coffea arabica]
MSCCGNCGCGAGCKCSGGCGGCKMYPELSYNTENTAAETLILGVAPPKTAYLEGAGEEAA
AENGGCKCGPDCKCNPENCK

>accession|AGL34968.1|Putative metallothionein type 3 [Coffea arabica]
MSDKCGNCDCADRSQCVKKGSSYAADIVETENTFVETFMMEGGAQNGKCKCGPSCACVN
CTCDN

>accession|AGM48615.1|Putative group 14 major allergen 1 fragment 3, partial [Sarcoptes scabiei type suis]
DLDNAFNPRDGTMKLQVKDRIYDIKLRPFYRGLHIEGNENALIKKGLHMSLVDPLT
LNVLTKNDGIVDMTLDLVSPTKKAALKINSKKYDLHDHGEITVSIENPRMTWKHHTRKG
DMELNIDADITRKGSLITYSRKEPDDSTKVRYSRQGNQVSMEVDSKLIIEGHANGTLTDGK
IHVKGRESDFEIESTYKVEDGKLMIEPTKTQNGKLEGLLSRKVPSHLVLETPRVKMMNKY
DRFAPVKILKLDYDGLNIEKHIDAEYEPSNHYKYFTDGKSKRSGKGYSIKIDGKPKKALK
VDVDMPDFKF

>accession|4AUD_B|Allergen Chain B, Crystal Structure Of Alternaria Alternata Major Allergen Alt A 1 [Alternaria alternata]
XSCPVTTEGDYVWKISEFYGRKPEGTYNSLGFNIKATNGGTLDFTCQAQADKXEDHKWY
SCGENSFXNFSFGSDRSGLLKQKVSDDITYVATATLPNYCRAGNGPKDFVCQGVADAY
ITLVTLPKSS

>accession|BAN29066.1|Allergen gamma-gliadin, partial [Triticum aestivum]
NMQVDPSSQVQWPQQQPVPQPHQPFSSQPPQQTFFPQPQQTFFPHQPPQFPQPQQPQQQFLQ
PQQPFPQQPQQPYPQQPQQPFPQTQQPQQLFPPQSQQPQQQFSQPQQQFPQPQQPQQSFPQ
QQPFFIQPSLQQQVNPCKNFLQQCKPVSLVSSLSMIWQPQSDCQVMRQQCCQQLAQIPQ
QLQCAAIHTIIHSIIMQQEQQEQQQGMHILLPLYQQQQVGGQTLVQGGI IQPQQPAQLE
AIRSLVLQTLPTMCNVYVPPECSI I KAPFSSVVAGIGGQ

>accession|BAN29067.1|Allergen omega-gliadin, partial [Triticum aestivum]
ARELNPSNKEQLSPQQSFSHQQQPFPQQPYPQQPYPSSQQPYPSPQPFPTQQQFPQQSQQ
PFTQPQQPTPLQPQQPFPQQPQQPQQPFPQPQQPFPWQPQQPFPQTQQSFPLQPQQPFPQ
QPQQPFPQPLPFPQQSEQIIPQQPQQPFPPLQPQQPFPQQPQQPFPQPQQPIPVQPQQSF
PQQSQQSQPFAQPQQLFPELQQPIPQQPQQPFPPLQPQQPFPQQPQQPFPQQPQQSFPQQ
PQQPFPQQPQQPFPQQPQQPFPQQPQQPFPPLRPQQPFPQQPQQSQQSFPQPQPQQPQQPS
ILQPQQPLPQQPQQPFPQQPQQQLSQQPEQTISQQPQQPFPQQPHQPQQPYPQQQPYGSSSL
TSIGGQ

>accession|BAN29068.1|Allergen high molecular weight glutenin subunit, partial [Triticum aestivum]
EGEASEQLQCERELQEHSLKACRQVVDQQLRDVSPECQPVGGGPVARQYEQQVVVPPKGG
SFYPGETTPPQQQLQQSILWGI PALLRRYYLSVTSPPQQVSYYPGQASSQRPGQGQEQEYYLT
SPQQSGQWQQPQGQSGYYPTSPQQSGQKQPGYYPTSPWQPEQLQQPTQGQQRQQPQGQ
QLRQGQQGQSGGQPRYYPTSSQQPGQLQQLAQGGQQGQPERGQQGQSGGQQQLGQGQ
QGQQPGQKQQSGGQQGYYPI SPQQLGQGQQSGGQLGYYPTSPQQSGGQSGYYPTSAQ

QPGQLQQSTQEQQLGQEQDQQSGQGRQGQQSGQRQQDQQSGQGQQPGQRQPGYYSTSPQ
QLGQGQPRYYPTSPQQPGQEQPRQLQQPEQGGQQQPEQGGQQQQRQGEQGGQPPGQGG
QGQQPGQGQPGYYPTSPQQSGQGQPGYYPTSPQQSGQLQPPAQGGQPPGQEQGGQPPGQGG
QPGQGQPGYYPTSPQQSGQEQLEQWQQSGQGQPGHYPTSPLOPGQGQPGYYPTSPQQIG
QGQQPGQLQQPTQGQQGQPPGQGGQQQPGEGQQGQPPGQGGQPPGQGGQPGYYPTSLQQSG
QGQQPGQWQQPGQGGQPGYYPTSSLOPEQGGQGGYYPTSPQQPGQGPQPGQWQQSGQGQQGY
YPTSPQQSGQGQQPGQWLQPGQWLQSGYYLTSPQQLGQGQQPRQWLQPRQGQQGGYYPTSP
QQSGQGQQLGQGQQGGYYPTSPQQSGQGQQGYDSPYHVSAEHQAASLKVAKAQQLAQLPA
MCRLEGGDALSASQ

>accession|BAN29069.1|Putative low molecular weight glutenin subunit,
partial [Triticum aestivum]

ENSHIPGLERPWQQQPLPPQQTFFQQPLFSQQQQQLFPQQPSFSQQQPPFWQQQPPFSQQQ
PILPQQPPFSQQQQLVLPQQPPFSQQQQPVLPPQQSPFPQQQHQQLVQQQIPVVQPSIL
QQLNPCKLFLQQQCSVPAMPQRLARSQMLQQSSCHVMQQCCQQLPQIPQQSRYEAIRAI
IYSIILQEQQQVQGSIQSQQQQPQQLGQCVSQPQQSSQQQLGQQPQQQQLAQGTFLQPHQ
IAQLEVMTSIALRTLPTMCRVNVPLYRTTTTVPPFGVGTGVGGY

>accession|AGR27935.1|Putative putative Pru du 6 allergen, partial
[Prunus dulcis]

DNHIQSEAGVTESWNPSPDQFQLAGVAVVRRRTIEPNGLHLPSYVNAPQFIYIVRGRGVLG
AVFPGCAETFEDSQPQQFQQQQQQQQFRPSRQEGGQGGQQFQGEDQLDRHQKIRHIREG
DIIALPAGVAYWSYNNGEQPLVAVSLLDLSDQNQLDQVPRRFYLAGNPQDEFNPQQQ

>accession|AGS80276.1|Putative manganese superoxide dismutase
[Alternaria alternata]

MELHHSKHHQTYITNLNGLLKTQAEAVSTSDITSQVSIQQGIKFNAGGHINHSFLWQNLA
PASSNEAKISAAPLVKQIQATWGDEDKFKEAFSAALLGIQSGWGWLKTDMGKEQRLS
IVTTKDQDPVVGKGEVPIFGVDMWEHAYYLQYQNGKAAVVKNIWNVINWKTAEERYLGSR
ADAFSVLKASI

>accession|AGT20779.1|Putative hemocyanin [Fenneropenaeus merguensis]

MRVLVVLGLIAAAAFQVVSADVQKQKDVLYLLHRIYGDIQDADLLATANSFDPAGGSYS
GGAAVQRLKGLNDGRLLLEQKHWFSLFNTRHRNEALLLFDVLIHSSDWATFVGNAAFFRQ
KINEGEFVYALYVAVIHSPLTEDVVLPPLYEITPHLFTNSEVIEAAYRAKQKQTPGKFES
TFTGTCKNPEQRVAYFGEDIGLNTHHVTWHMEFPFWWDDDEYGHHLDRKGENFFVHHQLT
VRFDAERLSNYLDPVGEHLHWYKPIVDGFAPHTTYKYGGQFPARPDNVKFEDVDDVARIRD
MVIVESRIRDIAHGYIIDSHGKQIDISNEKGIDILGDVIESSLYSPNVQYYGALHNTAH
IVLGRQGDPHGKFDLPPGVLEHFETATRDPSFFRLHKYMDNIFKEHKDSLPPYTKADLEF
SGVSISEVNVVGELETYFEDFEYNLINAVIDDAEGIPDVIDISTYVPRLNHKEFTFKIDIEN
GGSPRLATVRIFAWPHKDNNGIEFTFDEGRWNAIELDKFWVSLAGGKNSIERKSTESSVT
VPDVPSIDTLFAKTAAGGDGLSEFASATGLPNRFLLPKGNKGLFDFLVAVTGDADAA
VPDLHLNNTKYNHYGANGVYDPDKRPHGYPLDRRVPDERVFEELPNFKHIQVKVFNHGEH
HS

>accession|AGT28425.1|Allergen odorant-binding protein, partial
[Phodopus sungorus]

NDYAELEGKWDITIAAADNDAKIKEEGPLRLYVRELYCNEDCSEMEVTFYVNANNQCSKT
TVIGYKQADGTYRTQFEGDNRFPVYATPENIVFTSKNVDRAGQETNLIFVVGKSQPLTP
EQHEKLVFAHENNIPEENIHNVLATDTCPK

>accession|AGW21344.1|Allergen lipid transfer protein [Prunus persica]

MAYSAMTKLALVVALCMVSVPIAQAITCGQVSSSLAPCIPYVRGGGAVPPACCNGIRNV
NNLARTTPDRQAACNCLKQLSASVPGVNPNAAVLPGKCGVSIPIYKISASTNCATVK

>accession|CAA61943.2|Putative profilin, partial [Triticum aestivum]
MSWQTYVDDHLCCEIDGQHLTSAAILGHDGSVWTESPNFPKFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEFPGVVIRGKKGTTGGITIKKTMALILGIYDEPMTPGQCNLVVE
RLGDYLIDQGY

>accession|CAA61944.2|Putative profilin, partial [Triticum aestivum]
MSWQAYVDDHLCCEIDGQHLTSAAILGHDGSVWAESPFPKFKPEEIAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEFPGVVIRGKKGTTGGITIKKTMALILGIYDEPMTPGQCNLVVE
RLGDYLIDQGY

>accession|CAA61945.2|Putative profilin, partial [Triticum aestivum]
MSWKAYVDDHLCCEIDGQNLTSAAAILGHDGSVWAQSPNFPQFKPEENAGIVKDFEEPGHL
APTGLFLGGTKYMVIQGEFPGVVIRGKKGTTGGITIKKTMALILGIYDEPMTPGQCNLVVE
RLGDYLIDQGY

>accession|P86809.1|Putative RecName: Full=Non-specific lipid-transfer
protein 2; AltName: Full=Allergen Api g 6.0101; AltName: Allergen=Api g 6
[Apium graveolens Rapaceum Group]
ATCSAVQLSPCLAAITKNTPPSAACCNKLKEQKPCLCGYLKDPNLKKNYVNSPGARKTASS
CGVALKC

>accession|4B9R_A|Allergen Chain A, Crystal Structure Of The Major Birch
Pollen Allergen Bet V 1.0101 (isoform A) Nitrated In Vitro With
Tetranitromethan. [Betula pendula]
GVFNXETETTSVIPAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPFKXVKDRVDEVDHTNFKNXSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEOVKASKEMGETLLRAVESXLLAHS DAYN

>accession|4C9C_B|Allergen Chain B, Crystal Structure Of The Strawberry
Pathogenesis-related 10 (pr-10) Fra A 1e Protein (form A) [Fragaria x
ananassa]
AMAGVYTYENEFTSDIPAPKLFKAFVLDADNLI PKIAPQAVKCAEILEGDGGPGTIKKIT
FGEGSHYGYVKHKIHSIDKVNHTYSYSLIEGDALSENIEKIDYETKLV SAPHGTTI IKTT
SKYHTKGDVEIKEEHVKAGKEKAAHLFKLIEGYLKDHPSEYN

>accession|AHA36627.1|Allergen Cor a 9 allergen [Corylus avellana]
MAKLILVSFSLCLLVLFNGCLGIDVGLRRQQQRHFGECNLDRLNLEPTNRIEAEAGQIE
SWDHNDQQFQCAGVAVIRR TIEPNGLLLPQYSNAPELIYIERGRGITGVLFPGCPETFED
PQQQSQQGQGGQSQRSEQDRHQKIRYFQEGDIIALPAGVAHWCYNDGDSPPVAVSLLHT
NNYANQLDENPRHFYLAGNPDEHQRRQQQFQRRRQQQHSRGKEGEQEQQGEGNVS
GFDAEFLADAFNVVDVTARRLQSNQDKRRNIVKVEGRLQMV RPERSRQEWERQERQERES
EQERERQRRQGGGRDVGFEETICSLRLMENIGSRSRADIYTEQVGRINTVNSNTLPVL
RWLQLSAERGDLQREGLYVPHWNLNAHSVVYAIRGRARVQVDDNGNTVFDDEL RQGQVL
TIPQNF AVAKRAESEGF EWVAFK TNDNAQISPLAGRTSAIRALPDDVL ANAFQISREEAR
RLKYNRQETTLARSSRSSSERMRRRSESEGRAEA

>accession|AHA85706.1|Putative tropomyosin [Macrobrachium rosenbergii]
MDAIKKKMQAMKLEKDNAMDRADTLEQQNKEANNRAEKSEEEVFSLQKRMQQLENDLDSV
QEALLKANQHLEEKDKALSNAEGEVAALNRRIQLLEEDLERSEERLNTATTKLAEASQAA
DESERM RKVLENRSLSD EERMDALENQLKEARFLAEADRKYDEVARKLAMVEADLERAE
ERAETGESKIVELEEEELRVVGNLKSLEVSEEKANQREEAYKEQIKTLTNKLKAAEARAE
FAERSVQKLQKEVDRL EDELVNEKEKYKSITDEL DQTFSELSGY

>accession|AHB19225.1|Putative non specific lipid transfer protein 1C
[Punica granatum]
MASSGFLRLAGFVLVCMVAVSTVAEAGITCGQVSSSLAGCIQYARGNGAGPVPQACCNGI
RSLNSAAKTTTPDRQAACRCLKSLASSISGINYGLVAGAPGKCGVSIPYKIAPSTNCDNVK

>accession|AHB19226.1|Putative non specific lipid transfer protein 1B
[Punica granatum]
MASKRFLNNLVPALFLCMVVAASVVEAVTCGQVTSSLTPCIPYARGVVAAPSAACCSGV
RSLNNAAKTTTPDRQTACNCLKVIARSITGINYGRV GALPGKCGVSIPYKISPSTDCSRVK

>accession|AHB19227.1|Putative non specific lipid transfer protein 1A
[Punica granatum]
MTGSGFLFKLACAVFAVALVAAPIATEAAVTCGQVASSLAPCIPYARSAGGAVPPACCSGI
KTLDGMARTTPDRQATCKCLKSASTSISGINYGLVASLPAKCGVNIPYKISPSTDCARVK

>accession|4BK6_B|Allergen Chain B, Crystal Structure Of A Dimeric
Variant Of Bet V 1 [Betula pendula]
GVFNCETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>accession|4BK7_A|Allergen Chain A, Crystal Structure Of A Variant Of The
Major Birch Pollen Allergen Bet V 1 [Betula pendula]
GVFNFETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>accession|4BKD_A|Allergen Chain A, Crystal Structure Of An Unusually
Linked Dimeric Variant Of Bet V 1 (b) [Betula pendula]
GVFNXETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFPE
GFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKY
HTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>accession|AHC08073.1|Putative PR10 protein [Solanum lycopersicum
(Lycopersicon esculentum)]
MGVNTYTYESTTTISPTRLFKALVLDLDFDNLVPKLLSQHVKNNETIEGDGGVGSIKQMNFB
EGGPIKYLKHKIHVIDDKNLETKYSLIEGDILGEKLESITYDIKFEANDNGGCVKYKTTTE
YHTKGDHVVS EEEHNVRERIMNISKAVEAYLLANPSVYA

>accession|AHC08074.1|Putative PR10 protein [Solanum lycopersicum
(Lycopersicon esculentum)]
MGVNTFTHESTTTIAPTRLFKGLVLDLDFDSLVPKLLSHDVKSIEIVEGDGGAGSIKQMNFB
EGGPIKYLKHKIHVIDDKNLVTKYSLIEGDVLDGDKLESIAVDVKFEAAGDGGCVCKYKTTTE
YHTKGDHVVS EEEHNVGKGAIDLKFAIEAYLLANPSVYA

>accession|4BKC_A|Allergen Chain A, Crystal Structure Of A Unusually
Linked Dimeric Variant Of Bet V 1 [Betula pendula]
GVFNXCETETTSVIPAAARLFKAFILDGDNLFPKVAPQAISSVENIEGNGGPGTIKKISFP
EGFPFKYVKDRVDEVDHTNFKYNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNK
YHTKGDHEVKAEQVKASKEMGETLLRAVESYLLAHSDAYN

>accession|AHC94806.1|Putative allergen Der f 21 [Dermatophagoides
farinae]
MKFIIFCAIVMAVSVSGFIVDVEDTKWRNAFDHMLMEEFEEKMDQIEHGLMLSEQYKE

LEKTKSKELKEQILRELTIAENYLRGALKFMQOEAKRTDLNMFERYNFETAVSTIEILVK
DLAELAKKVKAVKSDD

>accession|CCK33472.1|Putative lipid transfer protein precursor, partial
(chloroplast) [Cannabis sativa]
ITCGQVASSLAPCLSYLKVGGAVPDGCCNDIKSLSGAAKTPADRQAACKCLKSAASSIKG
VNFNLASGLPGKCGVSIPYKISPSTDCSSVK

>accession|CCW27997.1|Putative serine protease inhibitor [Hevea
brasiliensis]
MASQCPVKDAWPELIGTNGDIAAGIETENANVKAIVLKKGSPMTMEYNLCRVLVFVDDN
RVVTQAPAIG

>accession|AHF71027.1|Allergen glutathione S-transferase [Betula
pendula]
MADASVKEHLPTPLDATSNPPPIFDGTTRLYTCYTCPFAQRVWITRNYKGLQEKIKLVPI
NLQNRPAWYKEKVYPENKVPALHNGKVIGESLDLIKYVDINFEGPSLLPNDDPAKKAF
ELVAYSDFNKTVFTSFKGDPVKEAGPAFDHLEKALHKFDDGPFPLGQFSAVDIVYIPFV
ERFQIFLLDALKYDITAGRPKLAKWIEELNKIDAYKPTKTDPKELVEFYKARFAAQQ

>accession|P86980.1|Putative RecName: Full=Fructose-bisphosphate aldolase
A; AltName: Full=Muscle-type aldolase; AltName: Allergen=Gad m 3.0101
[Gadus morhua]
PHAYPFLSPEQKKEL

>accession|P86979.1|Allergen RecName: Full=Fructose-bisphosphate aldolase
A; AltName: Full=Muscle-type aldolase; AltName: Allergen=Thu a 3.0101
[Thunnus albacares]
PHAFPFLTPEQKKELSDIAHKIVAPGKGILAADESTG

>accession|B3A0L6.1|Putative RecName: Full=Beta-enolase; AltName: Full=2-
phospho-D-glycerate hydro-lyase; AltName: Full=Enolase 3; AltName:
Full=Muscle-specific enolase; Short=MSE; AltName: Full=Skeletal muscle
enolase; AltName: Allergen=Gad m 2.0101 [Gadus morhua]
SITKIKAREIL

>accession|P86978.1|Allergen RecName: Full=Beta-enolase; AltName: Full=2-
phospho-D-glycerate hydro-lyase; AltName: Full=Enolase 3; AltName:
Full=Muscle-specific enolase; Short=MSE; AltName: Full=Skeletal muscle
enolase [Thunnus albacares]
SITKIKAREILD

>accession|P0DMB4.1|Allergen RecName: Full=Phospholipase A1 1; AltName:
Full=Vesapase; AltName: Allergen=Dol Ves a 1.01; Flags: Precursor [Vespa
affinis]
MMNLKYLFFCLVQALHYCYAYGDP SLSNELDRFNPCPYSDDTVKMIILTRENKKHDFYT
LNTIKNHNEFKKSTIKHQVVFITHGFTSTATAENFLAMAEALLDKGNLVLIDWRVAAC
TNEMAGVKLAYYSYAASNTRLVGN YIATVTKMLVQQYNVPMANIRLIGHSLGAHTSGFAG
KKVQELRLGKYSEIIGLDPAGPSFKSQECSQRICETDANYVQIIHTSNHLGTLVTLGTVD
FYMNGYNQPGCGLPIIGETCSHTRAVKYFTECIRHECCLIGVPQSKNPQPVSKCTRNEC
VCVGLNAKTYPKTGSFYVPVESKAPYCNNKGKII

>accession|P0DMB5.1|Allergen RecName: Full=Phospholipase A1 2; AltName: Full=Vespapase; AltName: Allergen=Dol Ves a 1.02; Flags: Precursor [Vespa affinis]
MMNLKYLFFCLVQALHYCYAYGDPSPSLSNELDRFNPCPYSDDTVKMIILTRENKKHDFYT
LNTIKNHNEFKKSTIKHQVVFITHGFTSTATAENFLAMAEALLDKGNLVLIDWRVAAC
TNEMAGVKLAYYSYAASNTRLVGNVIATVTKMLVQQYNVPMANIRLVGHSLGAHTSGFAG
KKVQELRLGKYSEIIGLDPAGPSFKSQECSQRICETDANYVQIIHTSNHLGTLVTLGTVD
FYMNGYNQPGCGLPIIGETCSHTRAVKYFTECIRHECCLIGVPSKPNQPVSKCTRNQC
VCVGLNAKTYPKTGSFYVPVESKAPYCNNKGI

>accession|A4GFC3.1|Putative RecName: Full=Profilin-3; AltName: Full=Pollen allergen Ole e 2; AltName: Allergen=Ole e 2 [Olea europaea]
MSWQAYVYEHLMCEIESHHLSSAAILGHDGTVWAQSTAFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMVIQGEFPAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVE
RLGDYLLEQGL

>accession|A4KA39.1|Putative RecName: Full=Profilin-1; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]
MSWQAYVDEHLMCDIDGQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLLEQGL

>accession|A4KA45.1|Putative RecName: Full=Profilin-4; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]
MSWQTYVDEHLMCDIDGQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLIDQGL

>accession|A4KA43.1|Putative RecName: Full=Profilin-6; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]
MSWQAYVDEHLMCEIEGHHLASAAILGHDGTVWAQSADFPQFKPEEITGIMKDFDEPGHL
APTGMFVAAAKYMVIQGEFPAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCDMVG
RLGDYLLEQGL

>accession|A4KA44.1|Putative RecName: Full=Profilin-3; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]
MSWQAYVDEHLMCDIDGQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG
HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLVEQGL

>accession|A4GFC0.1|Putative RecName: Full=Profilin-3; AltName: Full=Pollen allergen Ole e 2; AltName: Allergen=Ole e 2 [Olea europaea]
MSWQTYVDEHLMCEIEGLHLASTAIIGHAGTVWAQSTAFPQFKPEEITGIMKDFDEPGHL
APTGMFVAGAKYMVIQGEFPAVIRGKKGAGGITIKKTGQALVVGIIYDEPMTPGQCNMVE
RLGDYLLEQGL

>accession|A4KA40.1|Putative RecName: Full=Profilin-2; AltName: Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName: Allergen=Cor a 2 [Corylus avellana]
MSWQAYVDEHLMCDIDGQQLAASAIVGHGDSVWAQSSSFPQLKPEEITGIMKDFDEPG

HLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLAEQGL

>accession|A4KA41.1|Putative RecName: Full=Profilin-5; AltName:
Full=Allergen Cor a 2; AltName: Full=Pollen allergen Cor a 2; AltName:
Allergen=Cor a 2 [Corylus avellana]
MSWQAYVDEHLMCEIDGHHLSAAAIIGHDGSVWAQSSTFPQFKPEEIAAIKDFDEPGSL
APTGLHLGGIKYMVIQGESGAVIRGKKGAGGITVKKTSQALIFGIYDEPLTPGQCNMIVE
RLGDYLLKQGL

>accession|A4K9Z8.1|Allergen RecName: Full=Profilin-2; AltName:
Full=Allergen Bet v II; AltName: Full=Pollen allergen Bet v 2; AltName:
Allergen=Bet v 2 [Betula pendula]
MSWQTYVDEHLMCDIDGQQQLAASAIIVGHGDSVWAQSSSFPQFKPQEITGIMKDFEEPG
HLAPTGLHLGGIKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPVTPGQCNMV
VERLGDYLIDQGL

>accession|BA050870.1|Putative 13S globulin [Fagopyrum esculentum]
MLLGVLLCIMVSLAASETRSRGSSTMRARQCRLDQLTSSQPNQKIQSEGGTIEVWDEEED
QFQCAGVAAMRVTVQPDLSLPSYYSSPRLVYVEQEGVFGLSLPGCPETYQSRGMEMMRG
DEEEEGFESGRRMTDAHQPTRRVRKGDVVALPQGTVHWC FNDGQEDLVVVAVHNLNTDA
NQLDQSLKTFFLAGGVQGGSKGKSQKLNFNNILSAFETKLLAEALGTEEETVRKMQESD
ERGP IVKARKNMRQMVT PPRFGREQDEDETNGLEESFCNMRFHNLGPRTEADIASRQAG
RIHSVDQNKLP ILEFIDMSAEKGHLLPNAMLAPAWPLSGHRVFYVLRGEAQM QIVDDNGQ
TVLDDRVSEGS MVVIPQFY I STCRAGRDGLEYSFETTANPMSSPLNGHASVFKGMP IPV
LSNSYQIS PRAAYELKQTRSHEHGLFS PFGGRS

>accession|BA050872.1|Putative 13S globulin [Fagopyrum esculentum]
MLLGVLLCIMVSLAASETRTRGSSTMRARQCRLDQLTSSQPNQKIRSEG GTIEVWDEEED
QFQCAGVAAMRVTVQPDLSLPSYYSSPRLVYVEQEGVFGLSLPGCPETYQSRGMEMMRG
DEEEEGFESGRRMTDAHQPTRRVRKGDVVALPQGTVHWC FNDGQEDLVVVAVHNLNTDA
NQLDQSLKTFFLAGGVQGGSKGKSQKLNFNNILSAFETKLLAEALGTEEETVRKMQESD
ERGP IVKARKNMRQMVT PPRFGREQDEDETNGLEESFCNMRFHNLGPRTEADIASRQAG
RIHSVDQNKLP ILEFIDMSAEKGHLLPNAMLAPAWPLSGHRVFYVLRGEAQM QIVDDNGQ
TVLDDRVSEGS MVVIPQFY I STCRAGRDGLEYSFETTANPMSSPLNGHASVFKGMP IPV
LSNSYQIS PRAAYELKQTRSHEHGLFS PFGGRS

>accession|AHL24658.1|Allergen Sal k 4.03 allergen [Salsola kali]
MSWQAYVDDHLMCEIEGTNNHLTAAAILGVDGSVWAQSANFPQFKPDEISAVVKEFDEAG
TLAPTGLHLGGTKYMVIQSEAGQVIRGKKGPGGICVKKTGQALIFGIYDEPVTGQCNMI
VERLGDYLI EQGL

>accession|AHL24660.1|Putative Fra e 2.01 allergen [Fraxinus excelsior]
MSWQAYVDDHLMCDIEGHEGHRLTAAAIIVGHGDSVWAQSATFPQFKPEEINGITTD FNEP
GHLAPTGLHLGGTKYMVIQGEAGAVIRGKKGSGGITIKKTGQALVFGIYEEPITPGQCNM
VVERLGDYLIDQGL

>accession|AHL24661.1|Putative Fra e 3.01 allergen [Fraxinus excelsior]
MADDPQEVAQLERIFKRLDANGDGKISSSELGETLTKLGSITPDEIQRMMAEIDTDGDGF
ISYEEFTDFARANRGLVKDVAKIF

>accession|AHM25035.1|Putative icarapin variant 8 precursor, partial
[Apis mellifera carnica]
FPGAHDSDSKEERM RPAPNLQGVWKASRISTTRYRRTKEMY

>accession|AHM25036.1|Putative icarapin variant 9 precursor, partial
[Apis mellifera carnica]
FPGAHEDESKERTLPLPPRSSMDTW

>accession|AHM25037.1|Putative icarapin variant 10 precursor, partial
[Apis mellifera carnica]
FPGAHEDESKKEERKNVDTW

>accession|AHM25038.1|Putative icarapin variant 11 precursor, partial
[Apis mellifera carnica]
FPGAHEDESKVL

>accession|AHW81906.1|Putative 18 kDa winter accumulating protein [Morus
alba var. atropurpurea]
MGVFTFDDEFPSTVAPARFFKAAVLDADNLFPKVAPQAAKSAETVEGNGGPGTVKKITLP
DGKYVKQRLDSIDHDNFTYGHSHIEGDVLSADIEKISHVTKFVASSSGGSIIKVTTFHT
VGNAPVDEAKAKEGKEKAEGFLFKLVEGYLEANPSAYN

>accession|AHY02994.1|Putative transaldolase [Fusarium proliferatum]
MSSSLEQLKATGTTVVSDSGDFVSIKGYKPDATTNPSLILAASKKAEYAKLIDVAIDYA
KQKGGSIDQVDDALDRLLVEFGKEILKIIPGKVSTEV DARYSFDTEASVNKALHLIELY
GEQGISKDRILIKIAATWEGIKAAEILQRDHGINTNL TLMFSLVQAIGAAEAGAYLISPF
VGRILDWFKASTKKEYSKEEDPGVQSVKTI FNYYKKGYN TIVMGASFRNTGEITELAGC
DYLTISP NLLEDLLNSNEPVPK KLDASQAASLDIEKKS YINDEALFRFDNFEDQMAVEKL
REGISKFAADAVTLKSILKEKLA

>accession|AHY24177.1|Putative profilin, partial [Prosopis juliflora]
MSWQTYVDDHLMCEIEGTNNHLSAAAILGVDG SVWAQSASFPQFKPDEISAVVKDFDGGP
TLAPTGLHLGGTKY MVIQGE PGQVIRGKKGPGGICVKKTGQALIIGIYDEPVTTPGQC NMI
VERLGDYLVEQGM

>accession|AHY24648.1|Putative Can f 4 variant allergen precursor [Canis
familiaris]
MKILLLCLALV LASDAQ LPLPNVLTQVSGPWK TLYVSSNNLDKIGENGPFR IYLRGINVD
IPRLKMLFN FYVKVDGECVEN SVGASIGRDNL IKGEYNGGNYFRIIDMTPNALIGYDVNV
DSKGKITKVALLMGRGAHVNEEDIAKFKKLSREKGIPEENIRYLGDTDNC PNHE

>accession|2MC9_A|Allergen Chain A, Cat R 1 [Catharanthus roseus]
GSFTGSM PNPRVFFDMSVGGQPAGRIVMELFADTT PRTAENFRALCTGEKGTGRSGKPLH
YKSSSFHRVIPGFMCQGGDF TAGNGTGGESIYGAKFADENFIKKHTGPGILSMANAGPNT
NGSQFFICTAKTEWLDGKHVVFVGGVVEGMDVVKAIEKVGSSSGRTAKKVVVEDCGQLS

>accession|4BTZ_A|Allergen Chain A, Crystal Structure Of Peroxynitrite
Treated Major Birch Pollen Allergen Bet V 1.0101 (isoform A) [Betula
pendula]
GVFNXETETTSVIP AARLFKAFILDGDNLFPKVAPQA ISSVENIEGNGGPGTIKKISFPE
GFPFKXVKDRVDEVDHTNFKNYSVIEGGPIGDTLEKISNEIKIVATPDGGSILKISNKX
HTKGDHEVKAEQVKASKEMGETLLRAVESXLLAHS DAYN

>accession|G5DC91.2|Putative RecName: Full=Thaumatococcus
oculifera thaumatin-like protein 1; AltName: Full=Acidic thaumatin-like
protein; AltName: Full=Beta-1,3-glucanase; AltName: Full=Thaumatococcus
oculifera thaumatin-like protein 1b [Manilkara zapota]
ATFDVVNQCTFTVWAGASPGGGKQLDQGQTWTITVAPGSTKARIWGRTGCNFDANGQGKC

QTGDCNGLLQCQGYGSPNLTAEFSLNQPNNDYVDISLVDGFNIPMDFSPAAAGVCKDI
RCATDITAQCPAELQAPGGCNNPCTVYKTNEYCCTNGQGTGPTALSKFFKDRCPDAYSY
PQDDPTSLFTCPAGTNYKVVFCPNLDA

>accession|KEY78748.1|Putative allergen Asp F7 [Aspergillus fumigatus
var. RP-2014]

MAPIFKSLALVSALFAAISSAAPVNLDKREVDVVWTTVTTVVWTTIDVTTTTIYPTPQAPT
PPVESTPTPTPSAAPEQAEP IETSTQPETTKSQPTQPSVATFIPVAAAAAADSAAPVP
EEPAPQPATTAAPSTSTTTQAAPSAPPAANSNGSTKAASSGYSGPCSKGSPCVGQLTYD
TATSASAPSSCGLTNDGFSENVVALPVGIMTDADCGKTVTITYNGITKTATVVDKCMGCK
PTDLASRHLFGELADFSAGRIDGMSWYFN

>accession|KEY81716.1|Allergen allergen Asp F4 [Aspergillus fumigatus
var. RP-2014]

MQLKNSMLLLTALAAGSSVARLHGHERHLHHAGEKREVGDTVYATINGVLVSWINEWSG
EAKTSDAPVSQATPVSNAAAAASTPEPSSSHSDSSSSGVSADWTNTPAEGEYCTDG
FGGRTEPSGSGIFYKGNVGPWGSNIIIEVSPENAKKYKHVAQFVGSDDTPWTVVFWNKIG
PDGGLTGWYGNALTLHLEAGETKYVAFDENSQGAWGAAGDELPKDQFGGYSCTWGEFD
FDSKINHGWSGWDVSAIQAENAHHEVQGMKICNHAGELCSIIISHGLSKVIDAYTADLAGV
DGIGGKVVPGPTRLVVNLDYKE

>accession|AIL01316.1|Putative group 1 allergen Sor h 1.0102 [Sorghum
halepense]

MGVNMMSSWMSQVALVVALAFLVGGAWCGPPKVAPGKNITATYGSWDLEAKATWYGKPTGA
GPDDNGGACGYKDVNKAPFNMSMGACGNLPIFKDGLGCGSCFEIKCDKPAECSGEAVVVHI
TDMNYEQIAAYHFDLAGTAFGAMAKKGEELKLRKAGIIDMKFRRVKCKYGEKVTTFHVEKG
SNPNYLALLVKYVDGDGDVGVVDIKEKGGDAYQPLKHSWGAIRKDSDKPIKFPVTVQIT
TEGGTKTAYEDVIPEGWKADTTYTAK

>accession|AIL01317.1|Putative Sor h 1.0200 [Sorghum halepense]

MGSLANKIVAMAALVLAALVTGGSCAPKKFPPGNITTYNGQWLSARATWYGQPNGAGPD
DNGGACGIKVNLPYPNGFTACGNVPIFKDGGKCGSCYEVRCCKEMPECSGNPITVFITDM
NYEPIAPYHFDGSKAFGSLAKPGLNDKLRHCGIMNVEFRRVRCKLGGKIMFHVEKGSNP
NYLAVLVKNVADDGNIVLMELEDKASPGFKPMKQSWGAVWRFDTPKPVKGPFSIRLTSES
GKKLVAPNVIPATWKPDTLYNSNIQF

>accession|AIL01320.1|Putative group 13 allergen Sor h 13.01 [Sorghum
halepense]

MALGSNAMRVFFLLAMVCAHAAGKAAPKEKEKGGKDDKSGGAPAEAPSGSAGGSDISKL
GAKGDGKTDSTKALNEAWAAACGKEGPQTLMIKGDYLTGPLNFSGPCKGSVTIQLDGNL
LGTDLDSAYKTNWIEIEHVDNLVISGKGTLDGQKQVWDNNKCAQKYDCKILPNSLVLDY
VNNGEVSGITLLNAKFFHMNVFQCKGVTIKDVTVTAPGDSPTDGIHIGDSSKVTITGTT
IGVGDDCISIGPGSTGINVTGVTGCPGHGISVGSGLGRYKDEKDVTDINVKDCTLKKTNSG
VRIKSYEDAACVITASKLHYENIAMDDVANPIIIDMKYCPNKICTAKGDSKVTVKDVTFK
NITGTSSTPEAVSLLCSDKIPCSGVTMDNIKVEYKGTNNKTMAVCQNAKGSATGCLKELACF

>accession|AIL01321.1|Putative group 13 allergen Sor h 13.02 [Sorghum
halepense]

MACTGNAMRAFFLLAFVCAAHAGKDAPAKDGDAAKASGPGGSFDISKLGASGDGKKDSTK
AVQEAWTSACGGTGGKQITILIPKGDYLVGPNFTGPKGDVTIQVDGNLLATDLSQYKGN
WIEILRVDNLVITGKGLDGGQPAVWSKNSCAKKYDCKILPNSLVLDYVNNGEVSGITLL
NAKFFHMNVFQCKGVTIKDVTVTAPGDSPTDGIHIGDSSKVTITGTTIGVGDDCISIGP
GSTGINVTGVTGCPGHGISVGSGLGRYKDEKDVTDINVKDCTLKKTNSGVRIKSYEDAACV

ITASKLHYENIAMDDVANPIIIDMKYCPNKICTAKGDSKVTVKDVTFKNITGTSSTPEAV
SLLCSDKIPCSGVTMDNIKVEYKGTNNKTMAVCQNAKGSATGCLKELACF

>accession|AI008848.1|Putative Der f 28 allergen [Dermatophagoides
farinae]

MPSKTLKAPAIGIDLGTTYSCVGVFQNGSVEIIANDQGNRTTPSYVAFNDTERLIGDAAK
NQVSMNPTNTIFDAKRLIGRRFDESSVKSDMKHWPFKVVSSESGPKLEVEFKGERKRFP
EEISAMVLTKMKETAAYLGQKVTDVVITVPAYFNDSQRQATKDAGVIAGLNLVRIINEP
TAAAIAYGLDKKGGGKENVLIFDLGGGTFDVSVLIDNGIFEVKSTAGDTHLGGEDFDNR
LVNHVQVEFKRKFVKDIMSINKRALRRLRTSCERAKRTLSSSTQTSIEIDSLHEGIDFYST
ITRARFEELCSDLFRSTLEPVEKALRDAKLDKSKIDEIVLVGGSTRIPKIQKLLSDFVNG
KELNKSINPDEAVAYGAAVQAAIITGDNSNNVKDLLLLLDVAPLSLGIETAGGVMTTLIKR
NTTIPTKQTQFTTYADNQPAVTIQVYEGERAMTKDNNRLGTFDLTGIPPAPRGVPPQIEV
TFDVDANGILNVSAVDKSTGRQNKITITNDKGRLSKADIEKMQEAEQYREDDERQRERI
AAKNQLEAYAFQLKSTMEEEAVKSKLSEEDRKTVLNKVDETLRWLDSNQLADKEEFEHRQ
KEIENACRPIMMKIYQQQQQHPGANGSCGSNAYPGYNGFKSNNDGPVVEEVN

>accession|AI008850.1|Putative Der f 20 allergen, partial
[Dermatophagoides farinae]

MVDQAVIDKLEAGFQKLQSSAECHELLKYLTRNVLDACKGRKTGMGATLVDDVVQSGFEN
LDSGVGLYAPDAESYTLFKELFDPIEDYHKGFKPTDKHPQTDGFDVNTLCNVDPNNEFV
ISTRVRCGRSLQGYFPNCLTEAQYKEMEEKVKQLNSFEGELKGTYYPLLGMDKATQQQ
LIDDFHFLFKEGDRFLQAANACRFWPVGCIGIFHNDNKTFLIWVNEEDHLRIISMQKGGDLK
QVFSRLINGVNHIKKLPSRDDRDLGFLTFCTNLGTTIRASVHIKLPKLAADRKKLEEV
AGKYNLQVRGTAGEHTESVGGVYDISNKRRMGLTEYQAVKEMQDGILELIKIEKSM

>accession|AI008851.1|Allergen Der f 27 allergen [Dermatophagoides
farinae]

MKFFLLSFVLMIVAATATYAAHVGSGSRDNNNNKPVPAEGFAKASNEFGFHLKKEVIQHR
SSSGSRGSSENVLFSPPYVAVALSMVHQGTQGSTAEQFKRVLYYDRVQQLNGGEYQTVAN
SVKQIQNQIKQSDQSNQFDWGNMLMVDQQIPVKDQYKKIEQYYDGQVMSVDFRKEKSNV
MERINQFVSNKTHGLIDRMLEQPPSADTGLALINAVYFKGEWLKPFDSMRTEQSVFYGGH
GQYKQNVQYINGQGPYGYVEVPQWNSDLIQLPYKGEDIAFYGVLPREERNYDLKIRQSIN
STFVDEIVGQITGGQSSTVYFPKIELSTSYQLPEILKSMGLQDVFTESADLSGITDKKPM
KIDDAIHKAKLILNEQGTEAGAGTYIQMAVLSALETSHTRFDHPFMYFIRHLPTGQILF
LGEIHDF

>accession|AI008853.1|Allergen Der f 7 allergen [Dermatophagoides
farinae]

MMKFLLIAAVAVFVAVSADPIHYDKITEEINKAIDDAIAAAIEKSETIDPMKVPDHTDKFER
HVGILDFKGEELAMRNI EARGLKQMKRQGDANVKGEEGIVKAHLLIGVHDDIVSMEYDLAY
KLGDLHPNTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVVNHIGGLSILDPIFG
VLSDVLTAFQDQTVRKEMTKVLAPAFKRELEKN

>accession|AI008860.1|Putative Der f 25 allergen [Dermatophagoides
farinae]

MVRKFFVGGNWKMNRSRATNEDLIKTLNGLPLDPNTDVVVGVPYMAEVRQKLPKTIGV
AAQNCYKVPKGAFTGEISPAMIKDVGAEWVILGHSERRNVFGESDQLIGEKVEHALQEGL
HVIACIGELLEEREAGKTTEVVFRQTQVISKHVKDWSKVVLAYEPVWAIPTGKTASPPQA
QEVHQKLRQWFSENVSPQIAETIRIYGGSVTANNAKELASQADVDGFLVGGASLKPEFV
QIVNARQ

>accession|AI008864.1|Allergen Der f 11 allergen [Dermatophagoides
farinae]

MSARTAKYMYRSSGAGASGDISVEYGTDLGALTRLEDKIRLLSDDLESEREMRQRIEREK
AELQIQVMSLGERLEEAEGSSESVMNKKRDSSELAKLRKLLLEDVHIESEETAHHLRQKH
QAAIQEMQDQLDQLQKAKNKSDKEKQKFQAEVVELLAQLETANKEKLTALKNVEKLEYTV
HELNKIEEINRTVIELTSHKQRLSQENTELIKEVHEVKLQLDNANHLKTQIAQQLDTR
HRLEEEERKRASLENHAHTLEVELESKVLQDEESEARLELERQLTKANGDAASWKSKEYE
AELQAHADVEEELRRKMAQKISEYEEQLEALLNKCSSLEKQKSRLQSEVEVLIMDLEKAT
AHAQOLEKRVAQLEKINLDLKNKLEEVMTLMEQAQKELRVKIAELQKLQHEYEKLRDQRD
QLARENKLLTDDLAEAKSQLNDAHRIHEQEIEIKRLENERDELSAAYKEAETLRKQEEA
KNQRLIAELAQVRHDYKRLAQKDEEIEALRKQYQIEIEQLNMRLAEAEAKLKTEIARLK
KKYQAQITELESLDAANKANIDLQKTIKKQALQITAEQAHYDEVHRQLQQAQVQDQGV
QRRCALQAELEEMRIALEQANRAKRQAEQLHEEAVVRVNELTTINVNLASAKSKLESEF
SALQADYDEVHKELRISDERVQKLTIELKSTKDLLIEEQERLVKLETVKKSLQEVRTLH
VRIEEVEANALAGGKRVIKLESRIKRDVEIEVEEERRRHAETDKMLRKKDHRVKELLLQN
EEDHKQIQLLQEMTDKLNKVKVYKQMQEQEGMSQQNLTRVRRFQRELEAAEDRADQAE
SNLSFIRAKHRSWVTTTSQVPGGTRQVFTTQEETNY

>accession|AI008866.1|Putative Der f 29 allergen [Dermatophagoides
farinae]

MSWQSYVDNQCQHVDCITLAAIANIQDGSVWAKFEKDDKINPKELKTIADTIRQNPSPGF
LETGIHIGGEKYICIQADNQLVRGRRGSSALCIVATNTCLLAAATVDGFPPGQLNNVIEK
LGDYLRSNNY

>accession|AIS82657.1|Putative aspartyl endopeptidase [Rhizopus oryzae]

MKFFALSLSVSAAFSVFTDAAITKIPIKKVHETATEKLSRYSHYGTGEYLTQKYFNSQRNNQ
PMETFKNLNDPGSANHGVPLSNYLNAQYYGEIEIEIGTPPQPFVTVVFDTGSSNLWVPSTHCTS
IACFLHKRYDSASSRTYSENGTEFAIQYGTGSLEGFISQDTLSVGGIQVEDQGFQAEASTKE
PGLTFFAKFDGIFGLGYDTISVKHTIPPYFHMVNRDLVDEPLFSFWLNDANKDQDNGGE
LIFGGVDEDFEGDIHWSVRRKGYWEITMENIKFGDDYVDIDPVGAAIDTGSSLLVAPT
TVAALINKELGAEKNWAGQYVVDCKVPSLPEFCFVFNKDFCLEGKDYVLEVQGCISG
FMGMDIPEPAGPLWIVGDVFLRKFYSVYDLGNRVRGLAPSK

>accession|2MFK_A|Allergen Chain A, Nmr Solution Structure Of Chitin-
binding Domain From Dust Mite Group Xii Allergen Blo T 12 [Blomia
tropicalis]

GPLGSDLIVHEGGKTYHVVCHEEGPIPHPGNVHKYIICSKSGSLWYITVMPCSIGTKFDP
ISRNCVLDN

>accession|AJE61290.1|Allergen Pru p 1.0201 [Prunus persica]

MGVFTYSDESTSVIPPRFLFKALVLEADTLIPKIAQSVKSAEIVEGDGGVGTIKKISFG
EGSHYSYVVKHRIDGLDKDNFVNYTLEVDALSDKVEKITYEIKLVASADGGSIKSTSN
YHTKGDVEIKEEDVKAGKEKATGLFKLIENYLVANPDAYN

>accession|AJE61291.1|Allergen Pru p 1.0301 [Prunus persica]

MGVFTYETEFTSVIPPEKLFKAFILDADNLIPIKIAPTAVKDEILEGDGGVGTIKKVTFG
EGSQYGYVVKHRIDGIDKDNLTYSYTLIEGDALSDVIEKIVYDIKLVASPNNGSIVKTISH
YHTKGDVEIKEEQVKAGKEKAAGLFLKLVVEGYLLANPDAYN

>accession|CEJ95862.1|Putative albumin, partial [Pinus pinea]

CRDYLQRRREQPSERRCEELERMSPQCRCRAIQQVLDQSQSYDSITDDLDFMDSEAAPNQ
RRRRESRGREEEEEAEERAAAYLPETCNVRQPPRRCDVQRRSRYFTSGTDF

>accession|AJ053282.1|Putative chymotrypsin-like protein [Blattella
germanica]

MQYCAVLFFAAAVACAYGAELAALDPSTRVVGTTNAATGEFPFIVSLRSTSNSHFCGCSI

ISNYVVITAAHCVSGSSASSVVVAGTNTLNSGGTSYRVSRIVVHSGYNSNTIVNDIALL
RLSSAISYNSYVQPIALPAQGETSGAGVAAVASGWGYTSYPGWSLPNNLQKVSLSVISNT
QCSSYMNNIYSSSICASGGNGKVCNGDSGGPLTAGGKLI GLVSWGRPCAVGYPDVYTRV
SSYVSWINQNAV

>accession|AKH04310.1|Allergen alpha-amylase [Periplaneta americana]
MKLFALLALVLLAGVQSQKDPKLPDESTLLRLEFWKFDIADDECERFLAPKGYAGVQV
SPVHKNLLYTATAPGLWERYQPMSYKLVSRSGDETAFRDMVRRCAVGVRIYVDVVLNHM
SGNWDNAVGTGGSTADTYNYSYPGVPYDHSDFHPYICILNDYQDPEIVRNCCELVGLHDLQ
SQDYVREKLIDFLNHLVDAGVAGFRVDAAKHMWPADLEYIYGKVNRRNSDAGYCGDSSPS
RYQEVIDLGGEAVSKFEYNGFGRVTEFKHSEQIGYAFRGNNRLEWYTYKPNWGLLPSGD
ALVFVDNHDNQRGGGNAILTYPKPKNYKMAIAFILAHPYGYPRVMSSFDFAHDQGPQD
SDKNILSPSINADGTCGNGWVCEHRWRQHANMVGFRNAVRGTEITNWDNNGNHQIGFCRG
DRGFVAFNVEDNDLKQTLQTLCPAGTYCDVISGSKNNRAHLGAELVVAPNGEAFSVRLIS
DDGVLAIHLEEKL

>accession|AKH04311.1|Allergen chitinase [Periplaneta americana]
MKLTSLVAVGVGVFLAAALQTCKGFIRDFKTHRQLQEKGDRAVFCYYGSWATYRWGIAT
FEVDNIDTRLCTHIVYAFTGLRDGVIVSLDEYNDYEENWGKGLMKKFTTLAKNNGIKALV
GLGGWNEGSVKYSEMAATQAGRETFADSAVAFLQKQGF DGLDLWEYPARRGGVPEDKDN
FTLLLKTLSEKHLHARGLILTVAVSADPKTAANAYDFPNVAKYADYITLMSFDYHTPSSDT
VTGLNSPLDSL PQDTGYNKKLNKYSVNQWLKGGVPPNKLVLGVPLYGRYRLADPDQHG
LGAPILGPGTAGLYTQEAGFLAYYEICSNPDWNVWVWNTSSYLYAYKDYQWLSYDDPNTI
TIKAQWVLEKNLGGVMVWSLESDDFHGNCGK GAYPLLTAVNKALGRL

>accession|AKJ77985.1|Putative ElF1 superfamily transcriptions factor
[Triticum aestivum]
MGKRKAAAKPPPRKGMKLDTVFSCPFCHNGSSVECRIDLKNLIGEANCQICQESFSTTA
NALTEAIDVYSEWIDECERVNTVEGDGA

>accession|AKJ77986.1|Putative hypothetical protein, partial [Triticum
aestivum]
EFTNTCMECLVCDVHVACGDFASNDVIDPAKFRRLGINDCLVNDGKSIEPSFPVVSFYGN
SFPYPMTVASASDCDN

>accession|AKJ77987.1|Putative hypothetical protein [Triticum aestivum]
MTLVASSSLDPVWVEVLGDPLLRLLRRLLRFIFCRATLSLKFASNDKAECLPSCVPLPESV
GGESMLSQCVMRVASFLGAADQFSFAEVTTPDIDEPTSSGGVDKEL

>accession|AKJ77988.1|Putative mitochondrial ubiquitin ligase activator
of NFKB 1-like protein, partial [Triticum aestivum]
EMGDGQLCVICLRKRRRAAFVPCGHLVCCCNCAKRVELMDEPLCPVCRQDIQYMLRVYDS

>accession|AKJ77990.1|Putative endosperm transfer cell specific PR60
precursor [Triticum aestivum]
MAKLMCLCFIILTIADVVSADCEGDRQEMIKQCAKYQQWPANPKVNP SDACCAVWQKAN
IPCLCAGVTKEKEKIWCMEKVAYVANFCKKPFPHGYKCGSYTFPPLA

>accession|AKV72169.1|Putative allergen Koc s 1, partial [Bassia
scoparia]
MAKCQAVFLLVGCALCVLSLDDVAKAPVSQFHIQGLVYCDTCPYPSSYVLPMLLEGATVKLE
CRNITAGTQTFKAEAVTDKVGQYSIPVDGDFEDDICEIELLKSPDNQCSEVSHDVYAKQS
AKVSLTSNNGEASDVRSANALGFMRKEPLEECPEVLKELDLVDVKAN

>accession|XP_013623213.1|Allergen PREDICTED: non-specific lipid-transfer protein 3-like [Brassica oleracea var. oleracea]
MASALSFFTCLVLTVCIVASVDAAISCGTVTSNLAPCAVYLMKGGPVPAPCCAGVSKLNS
MAKTTTPDRQQACKCLKTAAKNVNPSLASSLPGKCGVSIPIYPIISMSTNCDTVK

>accession|ALA65345.1|Putative ubiquinol-cytochrome c reductase binding protein-like protein [Dermatophagoides pteronyssinus]
MVHLTKTLRFINNPGRKFFYYGLQGYNKYGLYYDDFYDYTDPAHLEAVRRLPPDLYDQHT
YRVIRASQLEITKQFLPKQWPSYEEDMDKGRFLTPYLDEVMKEKKEKEEWVNFSLSKD

>accession|ALF39466.1|Allergen pollen antigen 3.01 precursor, partial [Platanus x acerifolia]
AAITCGQVVSKLTNCLSYLRSGGTVSTACNGVTSLNKMANSTSDRQAACNCLKSAYKSI
SGIKLQYSQSLAGKCGVNLPHYKISPDIDCSKVK

>accession|XP_005902099.2|Allergen PREDICTED: beta-casein isoform X2 [Bos grunniens mutus]
MPLNTIYKQPQNQIIHSAPPSLLVLYFGKKELRAMKVLILACLVALALARELEELNVPG
EIVESLSSESSEISITRINKKIEKFQSEEQQTEDELQDKIHPFAQTQSLVYFPFGPIPNLS
PQNIPLPTQTPVVVPPFLQPEVMGVSKVKEAMAPKHKEMPFPKYPVEPFTESSQSLTLTDV
ENLHLPLPLQLQSWMHQPHQPLPPTVMFPPQSVLSLSQSKVLPVPQKAVPYPQRDMPIQAF
LLYQEPVLGPVRGPFPIIV

>Accession|Q6EBC1.1|Conglutin beta 2; Lup an 1 [Lupinus albus]
MGKMRVRFPTLVLVLGIVFLMAVSIGIAYGEKDVLSHERPEEREQEEWQPRRQRPQSR
EEREQEQEQGSPSYPRRQSGYERRQYHERSEQREEREQEQQGGSPSYRRQRNPYHFSQ
RFQTLTKNRNGKIRVLERFDQRTNRLNLQNYRIVEFQSKPNTLILPKHSDADYVLVVLN
GRATITIVNPDRRQAYNLEYGDALRIPAGSTSYIILNPDDNQKLRVVKLAIPINNPYFYD
FYPSSTKDQQSIFYSGFSRNTLEATFNTRYEEIQRIILGNEDEQEYEEQRRGQEQSDQDEG
VIVIVSKKQIQKLTAKHAQSSSGKDKPSDSGPFNLSNEPIYSNKYGNFYEITPDRNPQVQ
DLNISLTYIKINEGALLLPHYNSKAIYVVVVDEGEGNYELVGIRDQQRQDEQEEKEEEEV
IRYSARLSEGDIFVIPAGYPISINASSNLRLLGFGINADENQRNFLAGSKDNVIRQLDRA
VNELTFPGSAEDIERLIKNQQQSYFANGQPQQQQQQQSEKEGRRRGRGSSLPF

>Accession|P85984.1|Profilin; Pollen allergen Beta v 2; [Beta vulgaris]
YMVIQGEPEGAVIRLGDYLIDQGL

>Accession|4X9U_A|Chain A, Crystal Structure Kiwifruit Allergen Act D 5 [Actinidia deliciosa]
ISSCNGPCRDLNDCDGLICIKGKCNDDPQVGTHICRGTTXSXQPGGCKPSGTLTCRGKS
HPTYDCSPVTSSTPAKLTNNDSEGGDDGGPSECDESYHNNNERIVALSTGWYNGGSR
GKMIRITASNGKSVSAKVVDCEDSRHGCDKEHAGQPPCRNNIVDGSNAVWSALGLDKNV
VVDITWSMA

>Accession|AKV72168.1|Ama r 1, partial [Amaranthus retroflexus]
MAKQAVFLLVGCALCVLSLDDVAKAPVSQFHIQGLVYCDTCRIQFMTRISTIMEGATVKL
ECRNITAGTQTFKAEAVTDKVGQYSIPVNGDFEDDICEIELVKSPNSECSEVSHDVYAKQ
SAKVSLTSSNNGEASDIRSANALGFMRKEPLEECPVLEKELDLYDVKAN

>Accession|BAT62430.1|Ani s 14 [Anisakis simplex]
MQVKCIAKYGEQFCSSMLSVCSMLSIIPWKNDVQRLPPGIVGCAQTTPVQVQCRAYSE
SFCNRLGAACSKVTGTDIPAFSRGGGEYRLPEAISQCIAQENIVAMCYASKCSQQCDGWR
VTCNINGGMAQLTPEQVTCFEKQSGLVALKTSCRNTNPLNAQCRQIREPFETPKCTTAIPY
LKISQTVINGQIHVQQLVSGGMTGVQVSKTVETVIKT

>Accession|F5B8V9.1|Conglutin beta 1; Lup an 1 [Lupinus angustifolius]
MAKMRVRLPMLILLGIVFLAASIGIAYGEKDFTKNPPKEREHEPRQQPRPRQEE
QEREHRREKHDGEPSSRGRSQSEESQEEHERRREHREEREQQPRPQRRQEEEEEE
WQPRRQRPQSRREEREEREQEQGSSSSSGRQSGDERRQHRERRVHREEREQEQDSRSDSR
RQRNPYHFSSNRFQTYRNRNGQIRVLERFNQRTNRLNENLQNYRIIEFQSKPNTLILPKH
SDADFILVVLNGRATITIVNPKRQVYNLEQGDALRLPAGTTSYILNPDDNQNLRVAKLA
IPINNPGLYDFYFSTTKDQQSYFSGFSKNTLEATFNTRYEEIERVLLGDDELQENKQR
RGQEQSHQDEGVIVRVSKKQIQELRKHAQSSSGEGKPSSESGPFNLRSNKPIYSNKFGNFY
EITPDINPQFDLNLISLTFTEINEGALLLPHYNSKAIFIVVDEGEGNYELVGIRDQQRQ
QDEQEEYEQEEEEVRRYSKLSKGDVFIIPAGHPLSINASSNLRLLLGFGINANENQRNF
LAGSEDNVIKQLDREVKELTFPGSIEDVERLIKNQQQSYFANAQPQQQQQREKEGRRGR
GPSSILNALY

>Accession|F5B8W0.1|Conglutin beta 2; Lup an 1 [Lupinus angustifolius]
MANMRVKFPTLVLLGIVFLMAVSIGIAYGEKNAIKNHERPQEREQEERDPRQQPRPRHQ
EEQEREHGREEERNREPSRGRSESEESREEEREQRREPSRGREQEQQPQHGRREEEEEEWQ
PRRQRPQSRREEREQEQGSSSSSGRQSGYERREQRREEREQQEQDSRSESRQRNPYYFS
YERFQTLKYNRNGQIRVLERFDQRTNRLNENLQNYRIVEFQSKPNTLILPKHSDADYILVV
LNGRATITIVNPKRQAYNLEHGDALRLPAGTTSYILNPDDNQNLRVVLAIPINNPGNF
YDFYPSSTKDQQSYFNGFSRNTLEATFNTRYEEIQRIILGNEDGQEDDEEQSRGQEQSHQD
QGVIVRVSKKQIQELRKHAQSSSGKPKPSSESGPFNLRSDPEIYSNKFGNFYEITPDRNPQ
AQDLDISLTFIEINEGGLLLPHYNSKAIFVVVVDEGEGNYELVGIRDQERQQDEQEQEEV
RRYNAKLESGDIFVIPAGHPISINASSNLRLLLGFGINADENQRNFLAGSEDNVIRQLDKE
VKQLTFPGSVEDVERLIKNQQQSYFANAQPQQQQQREKEGRRGRGLSFPFRSLFTKLLS
TIM

>Accession|F5B8W1.1|Conglutin beta 3; Lup an 1 [Lupinus angustifolius]
MAKMRVRFPTLVLLGIVFLMAVSIGIAYGEKNVLKNHERPQEREQEERDPRQQPRPHHQ
EEQEREHRRESEESQEEEREQRREPRREREQEQQPQHGRREEEEEEWQPRRQRPQSRREER
EQEQGSSSSSRQSGYERREQRREEREQEQQGSRSDSRQRNPYYFSSERFQTLYRNRNG
QIRVLERFDQRTNRLNENLQNYRIVEFQSKPNTLILPKHSDADYILVVLNGSATITIVNPD
KRQSYNLENGDALRLPAGTTSYILNPDDNQNLRVVLAIPINNPGNFYDFYPSSSKDQQS
YFSGFSKNTLEATFNTRYEEIQSILLGNEDEQEDDEQWHGQEQSHQDEGVIVRVSKKQVQ
ELRKYAQSSSRKGPYESGPFNLRSNKPIYSNKFGNFYEITPDRNPQAQDLDISLTFIEI
NEGALLLPHYNSKAIFVVVVDEGEGNYELVGIRDQQRQDEQEVRRYSARLSEGDIFVIP
AGHPISINASSNLRLLLGFGINADENQRNFLAGSEDNVIRQLDREVKGLIFPGSAEDVERL
IKNQQQSYFANAQPQQQQQREEREGRHGRGHSSILSTLY

>Accession|F5B8W2.1|Conglutin beta 4; Lup an 1 [Lupinus angustifolius]
MIKMRVRFPTLVLLGIVFLMAVSIGIAYGEKNVIKNHERPQEREQEERDPRQQPRPHHQ
EEQEREHRREEREEDREPSRGRSESEESREEEREQRREPRREREQEQQPQHGRREEEEEEWQ
PRRQRPQSRREEREQEQGSSSSSRQSGYERREEREQEQQEQGSRSDSRQRNPYYFSSE
FQTLYRNRNGQIRVLERFDQRTDRLENLQNYRIVEFQSKPNTLILPKHSDADYILVVLNG
SATITIVNPKRQSYNLENGDALRLPAGTTSYILNPDDNQNLRVVLAIPINNPGNFYDF
YPSSSKDQQSYFSGFSRNTLEATFNTRYEEIQRIILLGNEDEQEDDEQRHGQEQSHQDEGV
IVRVSKKQVQELRKYAQSSSRKGPSPKSGPFNLRSNKPIYSNKFGNFYEITPNRNPQAQD
LDISLTFIEINEGALLLPHYNSKAIFVVLVDEGEGNYELVGIRDQQRQDEQEVRRYSAR
LSEGDIFVIPAGHPISINASSNLRLLLGFGINADENQRNFLAGSEDNVIRQLDTEVKGLTF
PGSTEDVERLIKNQQQSYFANAQPQQQQQREEREGRHGRGHSSILSTLY

>Accession|F5B8W3.1|Conglutin beta 5; Lup an 1 [Lupinus angustifolius]
MAKMRVRFPLVLLGIVFLLAASIGIAYGEKDVKNPERPEERQEEERDPRQPPRSRQ
EEQEREHRREKERDREPSRGRSESKQSQEEERERRKEHDREREQEQQPQYGRRHEEEEEKG

EEEEEGQARRQRPQRRREEREQEQGSSSESRQSGDERRRHRHEKREQREEREQEQGSSSG
RQSDYGRQRHEGREQREEREQEQGSSSESHRLRNPHYFSSERFQTRYKNKNGQIRVLER
FDQRTNRLLENLQNYRIVEFQSRPNTLILPKHSDADYILVVLNGRATITIVNPKRQAYNL
EYGDALRLPAGTTSYILNPDDNQDLRVVLAIPINNPGKFYDFYPSRTKDQQSYFSGFSK
NTLEATFNTHYEEIQRILLGYEDEQEDEEQRRQEQSHQDEGVIVRVSKEQIQELRKHAQ
SSSRKGPSESGPFNLSNEPIYSNKFGNFYEITPDRNPQVQDLDISLIFTEISEGALLL
PHYNSKAIFVIVVDEGEGNYELVGIRNQQRQDEQEVEEVRSYNARLSEGDILVIPAGHP
LSINASSNLRLGFGINADENQRNFLAGSEDNVIRQLDREVKELIFPGSAEDVERLIRNQ
QQSYFANAQPQQQQQREKEGRRGRRGPISILSALY

>Accession|F5B8W5.1|Conglutin beta 7; Lup an 1 [Lupinus angustifolius]
MARMRVRFPTLVLLLGLFLMAVSIGIAYGEKDVIKNHERPGEREHEERDPRQQPRPRKQ
EEQEREHRREEEHDRDPSRGRRESEERQEEERERRRREPCREEREQEQPQHGRREEEEEEE
EWQPRRLRPQSRKEEREQEQGSSSSSRKQSGYERRQYHERREQRDEKEKEQDSRSDSRRQ
RNPYHFSSERFQTRYRNRNGQIRVLERFDQRTNRLLENLQNYRIVEFQSNPNTLILPKHSD
ADYILVVLNGRATITIVNPKRQAYNLEYGDALRVPAGTTSYILNPDDNQDLRVVLAIP
INNPSNFYDFYPSSTKDQQSYFSGFSKNTLEATFNTRYEEIQRILLGNEDEQEDEEQRRG
QEQSYQDEGVIVRVSKEQIQELRKHAQSSSRKGPSESGPFNLSNESIYSNKFGNFYEI
TPERNPQVQDLDISLTFTEINEGALLLPHYNSKAIFVIVVDEGEGNYELVGIRDQQRQD
EQEEEEEEVRRYSARLSEGDIFVIPAGYPISVNASSNLRLGFGINANENQRNFLAGSED
NVISQLDREVKELTFPGSAQDVERLIKNQQQSYFANAQPQQKQREKEGRRGRRSLISSI
LSTLY

>Accession|B3EWP3.1|Defensin 1; Ara h 12 [Arachis hypogaea]
KTVAGFCIFFLVFLAQEGVVKTEAKLCNHLADTYRGPCFTNASCDHCKNKEHFVSGTC
MKMACWCAHNC

>Accession|B3EWP4.1|Defensin 2; Ara h 13.0101 [Arachis hypogaea]
VQKRTIIMEKKMAGFCIFFLILFLAQEYGVGEGKECLNLSDKFKGPCLGSKNCDHHCARDIE
HLLSGVCRDDFRCWCNRKC

>Accession|C0HJZ1.1|Defensin 3; Ara h 13.0102 [Arachis hypogaea]
MEKKMAGFCIFFLVFLAQEYGVGEGKVLNLSDKFKGPCLGTKNCDHHCARDIEHLLSGVC
RDDFRCWCNRNC