
Acyrtosiphon pisum cysLGIC peptide sequences

>Apisum_RDL1

MTGRAAHTVTTTAWLVACVAFMAPPDAHAAAPGGGMFGDVNISAILDSFSLSYDKRVRPNYGGTP
IEVGVVTMYVLSISSLSEVKMDFTLDFYFRQFWTDPRLAFTKRPGVETLSVGSEFIKNIWVPDTFFVNE
KQSYFHIATTSNEFIRIHSGSITRSIRLTITASCPMNLQYFPMDRQLCHIEIESFGYTMRDIRYKWN
EGPNSVGVSNVSLPQFKVLGHRQRAMEISLTTGNYSRLACEIQFVRSMGYYLIQIYIPSGLIVIIISW
VSFWLNRNATPARVALGVTTVLTMTTLMSSSTNAALPKISYVKSIDVYLGTCFVMVFASLLEYATVGYM
AKRIQMRKNRFLAIQKIAEQKKGHDTLGHGHSHQQQSRSGHGNMNGHNTLSGHNTLSGHNTLSGHNTL
SGHNTLSHGLSGHGLPPSHGTMAGHGGYDTHRSHSGHGGGGTLP SQILPGDMDHAHRQT VRFKAHD
PKNYLKGGSLENTINGRGGDDCNITPLPPQHVMHPSKDINKLYGITPSDIDKYSRIVFPVCFVCFNLM
YWI IYLHISDVVADDLVLLQADK

>Apisum_RDL2

MSAWLVACVAFWAPSTPCTHAASMYGDVNISAILDSFSGSYDKRVRPNYGGTPVEVGVVTMYVLSISSL
SEVQMDFTLDFYFRQFWTDPRLAFTKRPGVETLSVGSEFIKNIWVPDTFFVNEKQSYFHIATTSNEFI
RIHSGSITRSIRLTITASCPMNLQYFPMDRQLCHIEIESFGYTMRDIRYKWNKGPNSVGVSNVSLP
QFKVLGHRQRAMEISLTTGNYSRLACEIQFVRSMGYYLIQIYIPSGLIVIIISWVSFWLNRNATPARVS
LGVTTVLTMTTLMSSSTNAALPKISYVKSIDVYLGTCFVMVFASLLEYATVGYMAKRIQMRKNRFLAIQ
KIAEQKKGSGGGGAGGHSAGHDGSHAHPHHTSRHGHGHSISGHSTLSGHGTLSSGGHGPQSGHGTL
HGMSHGLASHGTMSSHYDGGGGGHRHSHMGHGGTSLSGSLMAGDL DHTPRQTVRFKAHDPKNYLKG
SLENTINGRGGDDNITPIPTQHVMHPNKDINKLYGITPSDIDKYSRIVFPVCFICFNLMYWI IYLHIS
DVVADDLVLLGAD

>Apisum_GluC1

MASFKEWPSFLMVFLFAHFAQY CSTRIDDDGCNNHKNSQHRCV PKVNYRHKEKEVLDQILGPGSYDA
RIRPSGVNGTDGPTIVHINL FVRSIMTISDNKMEYSVQLTFREQWMDERLKFNDYNGMKMYLTLTEAN
RVWMPDLFFSNEKEGHFHNI IMPNVYIRIFPNGLVLYSIRISLTLSCPMNLKLYPLDRQTC SLRMVSG
WTTDDL VFLWKEGDPVQVVKNLHLPRFTLEKFLTDYCN SKTNTGEYSCLKVDLLFKREFSYLIQIYI
PCCMLVIVSWVSFWLDQSAV PARVSLGVTTLLT MATQTSGINASLPPVSYTKAIDVWTVGCLTFVFGA
LLEFALVNYASRSDTHRDDMSKKCDLERTVSMVDGYEDGPN SFNMKPLMRPELMSRDKMSQI IHQT
PPMEKNSCWKSWSMKFPTRSKRIDVISRILFPMVFAMFNMSY WSTYLFREGVDEDK

>Apisum_GluC2

MVPFAVLAVTCSAYLFAVGPSSYGAKMNLQIILDSLLKKNYDRRATPTNHLDNATTVHCELYIRSFG
SISPVTMDYEVLDYLRQKQDARLQHKDITESLDLNDPNLVKAIWKPEVYFPNAKHAEFQFVTVPNVL
IRIKPDGDILYMLRRLKLTFS CMMDL SKFPLDNQICTMEVASCEFHHSKTI EELRLEWKNTDPVLM
GLRMPQFEIVDIVP SDCQESFQIGNYSCLVAQFYLSRSVGFHLVQSYP TMLIVVISWVSFWMDVDSV
PGR TTLGVTTLLAVGSQSSGIQSGLPQVS YVKAIDVWMTCTAFVFCALLEFTVVNYMWRKLRPDILR
NILTEPVNGGTAGTKSYDENLPSSPVI PVS VITV LQQECAYSTSVETNTVLARKIDEYSRLLFPVAF
IAFNALYWPYYLHN

>Apisum_HisC1

MKNWNTNKISSAIITKLIIFLYVIQFRYSKCLEFRDILPEDAKQYDKMRPPKIDGTATKVHFHVTVMG
LDSIDENAMTYAADIFFAQ TWKDHRLRLPENMTSEYRLLEVDWLKNIWRPDSFFKNAKAVTFQTMTIP
NHYMWLYKDKTILYMKLTLTLSCAMNFMIYPHDTQECKLQMESVSHTTDDMI FQWDPEVPLVVDENI
ELPQLQLVKNQTADCTQVYSTGNFTYYLFHTYIPTCLIVIMSWVSFWIKPEAAPARVTLGVTSLTSL
TQHAKSQAALPPVSYLKAVDTFMSACTVVFVFMALMEYCLVNI VLGDSMDP PKQLNKKSFNFSFRSNL
LNDGHSIPPPRPPPAATAAALAATTALAQRNRTRAINIDRFSRVFFPLLFAVLNMTYWVIFARFL

>Apisum_HisC2

MECFSDQSDIAESDNVVFETSLSLTDILPINPKNYDKNRAPKVQGQPTIVYFHVTVLSLDSINEESMT
YVADIFLAQSWRDQRLRLPENMS EDIRILDVEWLHDIWRPDCFFKNAKVT FHEM SIPNHYLWLYHDK
TLLYMSKLTVLVSCAMKFESYPHDTQICSMIESLSHTTHDLVFIWNMTDPLVNPDI ELPQLDISNN
ITTDCTIEYSTGNFTCLAVMFNLRRLGYHLFHTYIP SALIVMSWISFWIKPEAIPARVTLGVTSLL
TLATQNTQSQQSLPPVSYVKAIDIWSSCSIFVFLSLMEFAVNNYMGPVATKVMKGYSEEDIRGGDD
FKELDPKNRSPIRS VATVAAPQYPTFCNGRAIALYIDKFSRFFFPSFFILNVAYWTSFL

>Apisum_pHC11

MERIWRLQLAASFLVPLLQNVLSDDVDFENGKSDKEILDNLVNPTRYDKRLLPPVDDQDFCCGMKTP
QDVRVILPSANRHPPIRKGKYEVEFLLQQQWYDPRRLYSNQSRDYDFLNAIHGGDIWVPDITYFIMHGDF
KASLIPVHFSRLRIYRNGSVHYLMRRHLILSCQGILNIFPFDDPQCTFSMESVSYEMSAIKYVWKNDES
TLKKSPSLKTLNAYLDRNHTTECPSTGSRGEVNLIFTRDRAFYFTTVFIPGIILVTSSFITFFLEWN
AVPARVMIGVTTMLNFFTTSSNGFRSTLPVVSNLTAMNVWDGVCMCCEIYASLLEFVLVNYVGRKRSDWP
LPIVYQNKDQDYKQITQSDKTQGECSGCGACTHSLHNTCPKTEEQNIRSNGGNKRKMPHPPIRI
AKTIDVIARITFPTAYAVFLIFFFIHYTSHPSHWSQ

>Apisum_pHC12

MNFSKLLYVSILCVSILKYSESVQPKEVPFKFENGKSDKHILDHLLNTDIYDKRLLPPSYGPSIVNVS
VVLFTLSSPDESSLKYDIEFLLQQEWYDSRLKYPNQTAFSVLNGIHHQGDIDLPTNFHMHGDFKPSQ
RPIRFTLVNYNDGRVEYTTTRRHMLLVCEGSMKIFPFDDPQCTFSMESISYEKSDLKYVWKNEDNFVLIK
SPNLKTSNAYLERNRTEYCASTGSRGNYSCLQVELIFSRDRTFYFATIFIPGLILVTSSFITFFLEW
DAVPARTIIGVTTMLNYFTTSSNSFRRTLDPVANLTAMNVWDGVCMCFFVASFIEFVIVNCTGRRNVKS
NISSNAGSCSISKKITKEFKCPECAQNVCSHSLLDVLPKVNEKIATKPSDQVHLAMRIDTVARLTFP
SAFVMFLAFFFFYYSANANNRAISVNTN

>Apisum_12344

MFHLVRSKDFYEMETEYNKNMLPGKDVDVSLSLHINRISGVDESKEEIALDVFLHVYWEDPRIWILGN
ATQVELTWDKDPKFWIPDLYIRQLREMKVLTFLQDLASIRLYDNSTLRISIGATIIKCDMDFVLYPL
DVQTCVDFGSCKYTLTDMKFHWRDDPLIFPSPDFGDFRLPRYVVSFVTDNRLNVIYYGDGNHSTARL
VITLSRELRSHELLSYLPSTLFFVIMSWGFSVVMPEVVPGRMVLLVTTLLSLVTMFDTIRNNSPSALEL
KCI EVWLISCTLFFVFLALVEYFIVLFGMRYDKHWRHKKRDLGSGGAPSKPPLFGSNKVHATSGNMA
GDDDSQQHMMTTNSGPVVVASTGKLRFLQITRHVILYCGSPRGTLTLDQVSLALFPLCFVIFSVMYWISY
LNE SRLKALASVV

>Apisum_CLGC1

MIGYRGRGLRTLQAVTVIVYTALCIQTVQPACSDNTADGGNRVEMLMWLTDPCRYDRWTRPIPPDGN
TKTGAPTRVSARVYVYFLGSVEAQQHFTAHLIRYRWRDDRLVHSSSKS IQGENKLERVWTPHVV
IVNEHDSNIMGSGRQDILVTVQPDGTVLYSARLKVSLLCMMNLQKFPFDQQTCLILESWTYNSTHLE
LVWEHDSPAVLNSNLRMTEYNLVS IWTDETVSEYALLPSEDKHDKKEYSPLSVEHVHYYGKFAGNYS
QLIVNFELEREVGHYIMDYVPSIMLVVSVVSWVFWLDPNAVPGRTTLGTSTMLTFITLSRNIGSSLPK
VSYIKATEIWFIVCTAFIFGSLVEFAFVNTIWRKTNVELKKNVSKHIFKSTLTPQMQRKISVDSGI
DRGATGASPTVTSGKLNRRDNRSRSLTVDGVDGPTVCTNPEPLENFSIRVPTLNDNKTGGGGGLFTLT
PQEIAQWIDQRSRIAFPAAFLVFNCFYWLYVYV

>Apisum_CLGC2

MFYIKLYNFVVCVLLFTVVLPPLPSAKPNKTCGSEYNDEVSSSEKILRWLTDPCRYDKTVAPGKLVAHNP
IVVFTRI HVYHLTSVYPRNLDFKVRILLQFRWKDVRLAFDNLAPMDSSEVVCQKILERIWLPNVYIA
NEKHSLTVADMTEEDLMVTVLPDGTVMLSVRLKTSVFCWVKLGRFPFDRQQCHLIMETCRYDTTQLVLE
WEVESPVTAALNDNSWVPYLTEYKLLKIIPHSSSEHYVEPISLDPAREYGFYIMDYVPGIILLVTISWV
SFWMAPDATPARVAIGTSTMLTYFQLGVDTGSKLPNVSYIRSNDLWVIVCTAFIFLSLAEFAFVNTIW
RYGCHPVKLSKSNKQMFKSSIKASKMSKGI VNNDRPQRTIAAGSLFLDGI RLQNNGTSELNVELPYT
MEMKAMGKVKFKVSEESARQLHGGLTTTAQQISIWIDEKSRI VFPASFILFNAVYWSLLWV