FASTa

>AQM36767.1 prophenoloxidase **PPO1b** [Ostrinia furnacalis]

MADAEAKKNLLLFFDRPTEPCFMQKGDDKTVFQLPEHYYPDKYRALSTTLSDRFGTDDARVVPVANIGLP

DLSVPMQLPYNEQFSLFIQKHREMAGNLIDTFVGMRNVEDLTSLCTYCQLRINPYMLNYCLSVALLHRDD

TKGFNVPTLVQTFPDKFMDPKVFRKAREVSNVVTTGSRMPVEIPTNLTASELEPEQRVAYFREDIGVNLH

HWHWHLVYPFETDFAIVNKDRRGELLYYMHQQIIARYTSERFCNGLGRVVRYTNFRAPIEEAYFPKLDSQ

VASRAWPPRFAGSVLRDLDRPVDRIRIEVSELERWRDRVLQAIEENAVIVSGNRKVPLTEETGIDVLGNL

MESSILSPNRGYYGDLHNMGHVICSYAHDPDHRHLEQYGVMGDSTTAMRDPFFYRWHAFVDDVFDLHKTK

LPKYGNDRLDFPGIRVSSISVEGPAGSNTFGTQWEQSMVDLARGLDFTPRGSVLAKFTHLQHDEFTYVIE

VNNTSGAAAMGMFRIFLAPVNDESGQPLRFEEQRRLSIELDKFSQPLNAGNNTIRRNSVDSSVTIPYERT

FMDQTARPGDPGSAAAAEFDFCGCGWPHHLLIPKGTPQGFPMVLFVMVSNWNDDRVEQDTVGTCNDAASY

CGIRDRKYPDKRAMGFPFDRPPQESTLSDFLRPNMSIRQCTVKFTDATRIRQQRR

>AQM36768.1 prophenoloxidase **PPO1a** [Ostrinia furnacalis]

MADEARRNLMLFFDRPTEPCFMQKGDDKTVFQLPDHYYPDKYKALSTTLSDRFGTDDARIVQVSNIGLPD

LSLPKQLPYNEQFSLFIQKHREMAGSLIDTLVGMRNIEDLTSVCSYCQLHINPYMFNYCLAVALLHRDDT

KGFNVPTVVQTFPDKFMDPKVFRRAREVSNVVTTGPRMPVVIEQNYTVSDAEPEQRVAYFREDIGINLHH

WHWHLVYPFEADFATVNKDRRGELFYYMHQQIIARYNVERFCNGLGRVERYTNFRAPIAEAYFPKLDSQV

ASRAWPPRFAGSILRDLDRPVDRIRIEVSELERWRDRFLQAIEENAVLVPGNRKVPLTEENGIDVLGNLM

ESSILSRNRGYYGDLHNMGHVFCSYAHDPDHRHLEQYGVMGDSATAMRDPFFYRWHAYVDDIFNMHKVKL

PKYGADRLDFPGIRVSSISVEGPAGRNTFGTQWEQSTVDLARGLDFTPRGSVLAQFTHLTHEEFTYVIEV

NNSSGRSTTGMFRIFIAPVNDDRGQPLSFADQRRLFIELDKFSQPLNTGNNTVRRSSVDSSVTIPYERTF

MDQTKRPGDPGSATAAEFDFCGCGWPHHMLIPKGTARGYPMVLFVMVSNWNDDRILQDTSGSCNDAASYC

GLRDRKYPDRRAMGFPFDRPPQASTLSSFLRPNMAIRPCSVRFTDQVRIRPQQ

**storage protein [Ostrinia furnacalis]**

>AEG19552.1 storage protein [Ostrinia furnacalis]

MRAVVLLVLAIAALAAGRQVDDTMLGKDIVTMDIKERQMFILKLLNHVLEPVMYKEIEDIGKNFNIEENI

QLFTRTEVVKKFIYYYKLGMLPRGEIFTIHVDRQLKEVVSMFHMLYYAKDFVTFIKTACWMRLYLNEGMF

VYALTVAVRHREDCKGIILPPPYEIYPYYFLRADVIQKAYLLKMRRGLLDHKLCDFYGIKKTDKDVYIID

ENTYDRRTTLNYDDKLRYFTEDIDLNTYYYYFHVDYPFWMRDECFDKIRIRRFELTLYMYQQILARYYLE

RLSNGLGEIKTLTYNKPIKNGYWPWMMLHNGVQFPKRQNNYVVIRDDVIENLRLADAYEMIIKEAIVKGF

VEVNGLRLELTKTDDIETLGRLIYGKIDKVDVDKYHIDAYRYLLIIMKSILGLNTLKSDKYFVVPSVLDS

YQTALRDPVFYKLQKRLIDLVFLFKLRLPCYNKDDLYFPGVKIDNVVVDKLVTYFDDYLMDMTNAVMLTE

DELKKTTSDMKFFVRKRRLNHQPFKVTVDVLSDKTADCVIRIFLGPKEDHHGRLIDINKNRMNFVELDSF

LYKLVNGKNTIVRNSFDMHNLVRDRIMTRDLWKKVDTITDFRDLLVKDLRNFHTGFPTRLLLPRSKVGGM

KMMLYVIVTPLKLVDNVDLNILDTNRKDFMMDFRSTVLLDKRPLGFPFDRRIDVVKFFTPNMKFVDVMIF

HKKQVCDMKTRWNKYVLKNYDMYDRTMITDDTSFVDIDIHTKSMVDHDVNVFDNY

**diapause-associated protein [Ostrinia furnacalis]**

>AAF89672.1 diapause-associated protein [Ostrinia furnacalis]

MIQMNLVVLLASAALVSSYGVQLHGGYYRVPANAGTVLMKDVEKPYQLGLDRDTNTLFFSYTVDEQRRRE

GDDNAFRSAYVNLKDGTSGTIPGVHNGFANAYDTQQKIVYIGGDTGVHKFDYRTKTASNLNITESNIWQM

FYKNGLYFTTYPDQKAFVYKNDRLRLVPELMDVKATLVALEKGDSIVYSLDGDLRRTSEGRVYELGSYNV

NGFNTDVNGDLYFSTSDAIYQVDGNTVQKFAAFPDIYGFAFEGDKQIIYGTENSVMRLTLTSDMFGDDNK

TKDEVSNNVPQ

**Prophenoloxidase [Plodia interpunctella]**

>AAU29555.1 prophenoloxidase [Plodia interpunctella]

MTDAKRNLLRFFNRPTEPCFMNKGEDNAAFELPDHYYPDKYKTVSSALANRFGTDASVTIPVRNIALPNL

DLPMQLPYNEQFSLFVAKHRKMAGKLIDVFMSMRDVDDLLSLCSYCQLRINPYMFNYCLSVAILHRPDTK

GIQVPPVVETFPDKFVDPKVFRRAREVTSVVPAGARMPITIPTNYTAADSEPEQRVAYFREDIGINLHHW

HWHLVYPFEAERSIVAKDRRGELFYYMHQQIIARYNVERMCNNLGRVTRFNDFRQPIAEGYFPKLDSQVA

SRSWPPRFANTTLRDLDRPVDQIRIDVSELDTWRERFIQAIENGFIVLPNGRQIPLDENTGIDELGNLME

SSVISRNRAYYGDLHNMGHVFISYAHDPDHRHLEQYGVMGDSATAMRDPVFYRWHAYIDDIFVLHKDKLQ

PYQDNVLDFPGIRVSSISVEGGAGANTLGSHWQQSLAELSRGLDFTPRGSVLARFTHLHHDDFNYVIEVN

NTSGQARMGTFRIFLAPTQDERGSPLGFNDQRRLMIELDKFSEGLRPGNNTIRRRSTDSSVTIPFERTFR

AQSARPGDPGSADAAEFDFCGCGWPHHMLIPKGTQQGYPVVLYVMVSNWEDDRIEQDLVGSCNDAASYCG

LRDRKYPDRRAMGFPFDRRASANNLSDFLRPNMAVRECRIRFTDAVQQQQQ

**hexamerin storage protein PinSP2 [Plodia interpunctella]**

>AAK71137.1 hexamerin storage protein PinSP2 [Plodia interpunctella]

MRAIVAALVLAVAAASVVKDDYKDFIITKEPMINLDVKTKEVCILKLLNHILQPTMYDDIRDIAREFVLE

DNMDKFLKAEVIKDFISLYKLGMLPRGEIFVNTDEKQLKEAIAVFRILYFAKDFDTFIKTACWLRERINN

GMFVYCLNVAVVHRVDCNGIVLPAPYEVYPFLFVDSHIIKKVHMLKMTKGWLDPILKDYYGIVIKDNNLV

IVDWRKGVRHTLTKDDRLTYFTEDIDLSTYLYNMHLMYPTWMIDDIYNVNKERRGEVMAYMNFQLLARYR

LERLGWMMCDVKPLLFDKCIKKGVWPKIMLHTGDEMPVRMNNVDIMTDENAKIKLMIDDIDMMIRHAIMT

GHITLRDGTVLTLRKAEDFETLARLVLGSTGLKNDDAKIANLVTLFRKMLGYGLYNINKYTYVPTALDMY

RTCLRDPVYWKLMKRITDYFVTYKRLLPKYTREELSFPGIKVEHIETDKLVTFMDEFDLDITNSVYLDQS

EMQKRRSDMVYVARMRRLNHHPFKVSIDVVSDKATDAVVRVFLGPKYDCMGRLLDINDKRLDMVEIDSFV

HKLDTGKNTIVRNSVEMHGIIEQRPWTRTMWHRASDMSGTGVTNIDSWWYKSRIGFPHRLLLPLGRAGGF

DLQLFVIVTPVRMGLVLPTVDLDTMKMRKICPWTTCVDTMPLGFPFDRPIDERVFYNTNVKFLDVKIFRK

DLVNTNVAKDIDLSEMIMRRDDLTFLDKDMLMRRSYRDVMLMSVDNMSHL

**methionine-rich storage protein [Spodoptera litura]**

>CAB55604.1 methionine-rich storage protein [Spodoptera litura]

MRVLLVLAAVALAAANVVKDDTNVFIGKDNMVNFDIKMKELCIMKLLNHILQPTIYDDVREVAREWVIED

NVDKYLKAEVVRDFINTFRMGMLPRGEVFVHTNELHIIQAVKVFKILYFAKDFDIFMRTACWLRERINGG

MFVYALTACVFHRADCRGITRPAPYEIYPYFFVDSHVINKAFMMKMTKAANDPVLMNYYGIKVTDKNLVV

IDWRKGVRRTLSQNDRISYFTEDIDLNTYLYYLHMSYPYWMNHDMYAVNKERRGEIMSYATMQLLARLRL

ERLSHEMCDIKPIMWNEPLKTGYWPKIRLHTGDEMPVRSNNMILVTKENLKWKRMLDDVERKLRDGILNG

KIERRDGTVISLKKPEDIEDLARMVLGGMGLVSDDAKFMHMMHLMKRLLSYNVYNFDKYTYVPTALDMYT

TCLRDPVFWRLMKRVTDVFVLFKKMLPKYTRDDFDFPGVKIDRFTTDKLVTFMDEYDLDITNALYLDDAE

MKKKRPDMLMVARMRRLNHHPFKVTVDVTTDKTVDAVVRIFIGPKYDCLGRLMSVNDKRLDMVEIDTFKY

KLETGKNTIVRNSVEMHGVIEQRPWTRRILNNMRDTVGMISKTVDVESWWYKTRVGYPHRLLLPLGRLGG

FPLQMYVIISPVKTNLLLPTVDMSLMKERRTCRWSVCFDTMPLGFPFDRKIDMTKFFTHNMKFTDVMVYR

KDLGLSNNIKDVDMSDMVMKKDDYTYLDTDMLTRWSYKDVMMMSKDDMMRM

**prophenoloxidase [Tenebrio molitor]**

>BAA75470.1 prophenoloxidase [Tenebrio molitor]

MASKKNILLLFDRPREPVFIAKGSKKAVFSVPNEYLADKYKPLGVALTNRFGEDADERIDVKKISIPPFG

EILELSRDENFSLFIPKHRRIAGRLIDIFLGMRNVDDLVSVAVYARDRVNPYLFNYALSVAILHRPDTQD

VDLPSFIESFPDKYVDAKVFAQAREQATVVPEGSRAPIEIPKDYTASDLEEEHRLAYFREDLGINLHHWH

WHLVYPFEAAREVVAKNRRGELFYYMHQQIIARYNFERLCNKLKRATRFNDFKQAIQEAYFPKLDSLVAS

RSWPARVGNQRLKDLNREVDQIKQDVDDLKRWSDRIYAAIHQGSATDERGRKIELTENEGIDILGNMIES

SILSPNRTFYGDMHNMGHVFISYVHDPDHRHLESFGVMGDSATAMRDPIFYRWHSYIDDIFQEYKATLPR

YTENQLNFPGVTVSKVEVQVQGGSANTLNTFWQQSDVDMSRGMDFQPRGSVFVRFTHLQHQPFTYKITVK

NSSNGNRKGTCRIFIAPKLDERGNPWLYRDQKNMFVELDKFTVNLKQGQNNITRASSQSSVTIPFERTFR

NLDLNRPQGGEELAQFNFCGCGWTQHMLIPKGTPEGMPCQLFVMISNYEDDKVNQSTEGVCNDAGSYCGI

KDKLYPDRRSMGYPFDRMPRNGVDTLQQFLTSNMRVQDVTIKFTNRTVRPKSRN

**juvenile hormone binding protein [Locusta migratoria]**

>AAC47391.1 juvenile hormone binding protein [Locusta migratoria]

MAALCNLLLLLLLAAAATAAPNPEGEKVFLTRQRDVLRLFVKIQQPAVIPEHIEIIKSFKWEEIEPKLQD

KETVERFLQLHKEGALLSREDDFSILYAKHLWQAVDLFKILYRIPDYETFHKVAVWLRYNVNVGLFEYVA

RVVLLHRDDTRELLLPPPYEVLPQFFVSAPALQQATDACLRGLCADENRPFVIRANYTGSHALRNVESKL

SYFREDVGLASYMAFMGAQYIVPWVNASECPWPALRMRGDLYYFLMRNLLARYDLERLSNHMLPVTPVDL

WEPVSEGYDPQLRLLSGKEAAARPEGLRPTHADVISLDDVISWERRVRDAAATALFLNEKKLESLEESDA

VNRLASIVMGGPSSPAPNYYRSVSWGLQTLYGHIADPQHQYGMAPSALDMHLTMYRDPLYYRIIKRIYGI

FEVYKNNLPPYHAQDLTWGGVKIEELKVVDKLVTFFDDFDIRLDNAIDVGRVEDIRKTNVVARQQRLNHK

PFSYSLSVSSDKEQLALVRVFLGPADGAVPVEDLRHHFLVVDGFHTKLKPGNNTIVRKSREMLSVSDDPS

TFRELYGRVEAALGGGERLVAGAERVRLEGYPHRLLLPRGRPSGLPLELVAVATDAREPAYPGQVFSDGR

DPFFPFDRRLFLWELRSAPNARFEPVTIYHRVSKDAKH

**arylphorin [Galleria mellonella]**

>AAA74229.1 arylphorin [Galleria mellonella]

MQTVLFLAALVSLAAAGYPQYHYDVETRKLDPSLLNIQTKVLSLLENWKQVNPDDEYYKIGKEYNVEANM

ESYTNREVVTEFLSLYKAGFIPKNEVFSIFYENQALEVIALYRLFYYAKDFETFYKTAAFARVWLNEGQF

VYAFYLAVIHRADTRGIVLPAPYEIWPEYFMNSDVLSKIYRIQMQKGLIIPEQGPYYGILSKDNAYYFYA

NYSGPLTYEDNENLLSYFIEDIGWNSYYYYFHNRFPFWENGEQLIGPLKERRGEIYYYVYQKILARYYLE

RLANGLGEIPRFNWLDKYQTSYYPLLSSYQLPFAQRNDDYYLASGDNINDIQFIDTYEKTFLQLLQKGQF

KAYKQEVDLYNSKSINFVGNYWQSNADLYEKVPKRNYWRSYEATARRVLGAAPRSSINYENMNIPTALDF

YQTSLRDPAFYQLYAKILDYINEYKEYLEPYSQDVLHYVGVKINDVKVDKLVTYFEYFDWNATNAVYLSE

QQLDTVSPSYIVRQPRLNNKPFTVNIDIKSDVESEVVVKIFLGPKYDGNGLPISLEDNWINFIELDWFTH

KLTSGQNKIARKSEEFFFFKDDSVSLFKIYELLSNGQVPSYMVDRYIYLPRRLILPRGTQRGFPLQLFVV

VYPYQAPVKEWESMRQYIVDNKPFGYPFDRPVTLPYYFNQPNMYFKDVYVYQEGEQYPYYNSYWSQNQVS

NH

**riboflavin binding hexamerin precursor [Hyalophora cecropia]**

>AAB86645.1 riboflavin binding hexamerin precursor [Hyalophora cecropia]

MALLSLFVLALIFAPGLCDPVRTVDSVEFAKKQIDISLLYYHAREPNHVSKCITISASWSIENNINHYKN

ETAVKIWIEMKKQNWLLPLSVPFSPLNPSHQFEAITLFNILYSAKDYDTFYKTTVYMKDRVNQDLFIYVL

SILHIHRSDLEGYAIPPIYEVLPEYFNNGEIMTTAQRIGVHGSHMIEYYPSTYKWDNSVVIRWNTTVWPY

QCQSTPMSYYLHDYSLNAHYYYHHLTYSKWLGGDVIPLLKERRGEWYWFVHKQLVTRYYMERLSNGFGEI

DELSGDVVNEGYNFGYMYHNGIPYPVRPNHFHLDHPEHIGEIEKIKNYERRLRDAIESGYIINSAGDHVD

ISSPEAIDILGRLIEAGVDSPNVHYYKDFISSWKYVLGNSLWYRHNYNNPGSATPVLIPSALEHYQTALS

DPAFYMIWKRVLKLFSLWHHRLPQYKNEELALTDVTIEKVEVDKMVTYHEYTYTNISAAIHMNEVQSQLM

YDKESVLVQYARLNHKKFNIRVQVSSKVTKKVEVKFFLAPKYDSRGFEIPLHANSENFFLLNHFVHELTA

GENVIVRESTQNSFTVDDLESAYEIYMKAQNIVEGKKETLKERTKHLDFFPHHLLIPKGRVGGMPFVLMV

YISELHPSKVSSEDKYGARFLSGTPLGFPVDRPLHWWQIQNLQNIYFHDVMIHHKPTPEIVVPYNF