

HarmOBP1 MSKFTFFVLCVAVSLSKVYASDEDKAKLHEALKPLVEECMKDHEVSLDLKAAKEAKSAG-VKPCFLACVYKKAENVL  
 DkikOBP993 MFRPVFIYFTFIYFLFCDVQAQMNLDLQKAYLNYVLECAVENSVPDDLEELKNLKMPPDKENVRCLFACAYKKAGMM  
 DhouOBP MFRPLFIYFTFIYFLFCDVQAQSNLDLQKAYLNYVLECAVENFVTSDDLEELKNQKMPDKENVRCLFACAYKKAGMM  
 SexiOBP6 MLGSLLFVFAFVSFSLGAEALLIDDLKQKYADSILOCSQQYPLDRADAEELQNKVMPDKESTKCLFACVYKVTGVM  
 DpleOBP5 MECSKDYPLTDEEIAQLKDKQFPDKDDVRCLFACAYKKTGMM  
 SexiOBP14 MAIYSLPSARTDQEIKAFFREGMDCNNEHPLSPKEMLELKENKIPDTNSAKCFVACVFKKTGML  
 PxyLOBP9 MFPYIFTYVFIGVYFTCTGTLMKDEERVKFHRTIQSCAQQHFISPEIQGSLVNWQISDTQEVKCFIACIFQIGIMI

HarmOBP1 NDKGFDADHALEKLEFVS-DE-DVLAKVAEVGNTCKAVNDKAVSDGDAGCERAAALLTACFLEHKAEILV-----147  
 DkikOBP993 NDKGELFIEGVQEITKKYFS-DNPEKMKYSEQFIQACESVNDAPVSDSKKGCRAALIFKCGVENVPDFEFIV---150  
 DhouOBP NDKGDLFIEGVQEINKKYFS-DNPEKMKYSEQFIQACESVNDAPVSDSKKGCRAALIFKCGVENVPDFEFIV---150  
 SexiOBP6 SDQELSVDEGVNALSQKYL-ADPEKLLKSEEFTEACRTVNDAPVSDGARGCDRAALIFKCTIEKSPDFSFV---147  
 DpleOBP5 DDQKLSVDGVNNAKLYFS-DDQKLLQSKQFTEACAGVNDNAVTDGEKGCERAAALIKYCSIEQASQITITGYQTCKIL  
 SexiOBP14 DSKGMFDADSSIAMTQKDF-ADPEKLLKSEEFTEACAGVNDNAVTDGEKGCERAAALIKYCSIEQASQITITGYQTCKIL  
 PxyLOBP9 DSKGRFDAAHVNDITKLMTEDDFVLLQQTQDITESCKYVNDRHAGDPHETCERAAALIKYCSIEQASQITITGYQTCKIL  
 DpleOBP5 AKRPRIGVLAQAQEQDRLNRDLFLHLGNTMQQ--152

DpleOBP MLNLLRIALFIVAVNADLNHERTKGATLKPIVCCDIPELGDPKPLAECNNMKLOGPCSDVCCVFEKSGFLDLKQ  
 HarmOBP16 MFKSIVFCALIVASHADVLKRRDSKGAELKPLVCCDIPELGDPKPLAECNNMKLOGPCSDVCCVFEKSGFLDLKQ  
 PxyLOBP19 MYNSCVLFLLLCVSLTHGNLFLEELKKGASLKPLSACRDIPELGDPEHLAECNNMKLOGPCSDVCCVFEKSGFLDLKQ  
 CsupOBP4 MFRFLCLVVFVFTSYQDLTQERSRGATLKPIVCCDIPELGDPKPLAECNNMKLOGPCSDVCCVFEKSGFLDLKQ

DpleOBP TINKGYRNHLMKMLEGHKEKWDGIEKISDCVDVLDROYLDYPCRAYDVFTCTGIAMLLKKCPKDSWKC-----145  
 HarmOBP16 TINKGYRNHLMKMLEGHKEKWDGIEKISDCVDVLDROYLDYPCRAYDVFTCTGIAMLLKKCPKDSWKC-----146  
 PxyLOBP19 TLDKEAYRTHLRNAAEHQGNSEAAEKAVRDCVDRELROYLDYPCRAYDVFTCTGIAMLLKKCPKDSWKC-----152  
 CsupOBP4 TINKGYRNHLMKMLEGHKEKWDGIEKISDCVDVLDROYLDYPCRAYDVFTCTGIAMLLKKCPKDSWKC-----146

LstiBPB1 SSPRNMVLDQGDMSGEAVKNRVDLNEIMNQCN  
 CmedBPB3 MLRVSAILLASFALSGLRSLAASTASSSQDKSAKPTDEEDSKDVKASADSQDDKTASEEASGEVTELMTAMSECN  
 PxyLOBP3 MFLASLATLVLTITLSSGKMKAEPRTEMPPMSSSSSVFHDGNDEHAEDDMGIMTHCN  
 DpleABP5 MRLVVAAVTLTITLTRCVPRTDKMNQNVKDLTSTTPNSMEEQMDKISNDLRPVMACN  
 CsupOBP612 MTSGSEQDIKTPEETDTNPDLMAIMGECN  
 SinfOBP10 ATTKETMPTITMSDQSSNNIDVDVLAVMDCN  
 SexiOBP10 MTKVLFIAVPMMITFAVTLASTKEAMTTMTDQVNSIEVDVLAVMDCN  
 MsexABP5 MCKPMYVVFISIVLSIVLAQKADNGNTKIANVQRNDQGSMDDDVDVEDIMNQCN  
 BmorOBP7 MANPVLLTFLVMTXSMARKSTEAPKSKTALFNDQNMGYEELDMEEIMHACN  
 DkikOBP998 MKNLFIITFALITFSLTNPIRAEDDKNKQTDQASKAIKEIDLNEVMACN

LstiBPB1 DSFRTEMAYIEALNESGSFPDETDRTPKCYRVCVLEHSGVASEDG-VFDAARAAEVFAGERGGRTMTDLQDLAAACA  
 CmedBPB3 ETFRIEMGYIHTLHETGSFPDETDRTPKCFVRCVLEKGTGIASEDG-QYSPQVALVFPGERGGRTMTDLQDLAAACA  
 PxyLOBP3 ETFRFDPAWQSLNESGTFPDENDKNPKCFIRCVLEGRVSLDS-VFDAARAAEVFAGERGGRTMTDLQDLAAACA  
 DpleABP5 ETFRIEMGYIHTLHETGSFPDETDRTPKCFVRCVLEKGTGIASEDG-QYSPQVALVFPGERGGRTMTDLQDLAAACA  
 CsupOBP612 ETFRIETSYLESLSNESGSFPDESDDTPKCYIRCVLMKTGVTTEDG-KFIPDVTQVFAQNIKEQMDGIGNMATACA  
 SinfOBP10 ESFRTEMAYIQLNESGSFPDETDRTPKCFIRCVFENVGIVSEDLQINPVRAAVIFAGERNGKPMDDIGNMATACA  
 SexiOBP10 DSYRIDPTYLQALNESGSFPDETDRTPKCFIRCVFENVGIVSEDLQINPVRAAVIFAGERNGKPMDDIGNMATACA  
 MsexABP5 ETFRIEMAYLQALNESGSFPDETDRTPKCFLLCVLDNTGVMTKDG-DFDPERTAALFAGERAGKVMDDIGDMAACA  
 BmorOBP7 ESFRIEYAYLESLSNESGSFPDETDRTPKCYIRCVLEKTEILSNG-VLNPTAALVFAGERNGKPMDDLEMAVACA  
 DkikOBP998 KSFTIQMSYVDALNKTGSFPDESDDTPKCYRVCVLEKGTGIASEDG-VFDLKRIPVVFANQHDGDFLVKDEVIASICA

LstiBPB1 D-RKETCKCDRSYRFLKCLIEAEIKYESN----- 138  
 CmedBPB3 D-RKETCKCERAYKFINCVIEAEIKYESN----- 182  
 PxyLOBP3 DRRRETCKCERAYGFMKCLMEAEIETVEYKADDS- 150  
 DpleABP5 D-RAETCKCERAYQYLKCLMGMIINKYDIT- 164  
 CsupOBP612 VDRNESCKCDRSYFMKCLMESEIKSFMKIM----- 137  
 SinfOBP10 ADROETCPCERSYKFLRCLMSMEIEKYENS----- 140  
 SexiOBP10 TDRQETCPCDRSYKFLRCLMSMEIEKYENS----- 157  
 MsexABP5 -DRKEKCKEKSYNLKLCLMTEIEKYANN----- 160  
 BmorOBP7 D-RHEKCKCEKAYNFVKCLMYEIDKYEKKN----- 160  
 DkikOBP998 E-RKEKCKCEKAYNFVKCLMTEIEKYANN----- 158