

glycerophosphoryl diester phosphodiesterases

PA0347	<VHPYTFRAENSFLPAEFR.SADGNPQSRGDLAGEIRAYLDAGIDGLFSDQPDVAVRLREQR*	.....
RSc0502	<VHPYTFRPENIFLPAALR.SGADNARNVSGSIQEIQAFLRAGVDGFFTDPAVGRQAVDTLQR*	.....
BPSL2712	<VHPYTFRPENNFLPASLKDGGTPSARHTAGSVREIQAYLRAGIDGFFTDPAVGRTAVDTFRR*	.....
XCC4234	<VQPYTFRPENYFLAADNRSGGAPTERNEAGALAEKRYLDTGIDAFFADDPGLARRALSGKTPR*	.....
all1051	<VHAWTFRNEDVFLPTNLQ....GNPQ.....EEYKRFYQTGIDGLFSDNPDTAFAVRSTL.....VPEPGTIFGLGFVPL...LGWLFRRRK*	.....
consensus	VpsaTFRsEs.FLssphp.ttsspspp.ts.h.EhphahpsG1DthFsDpPs1thphhphh.....	.....

D-Ala carboxypeptidase-related enzymes

BAS2819	<DGYGLGIYETKLPNGVSVWGHGGSIPGFMTFAGGVIGGKHTFAVNVNSLGPVDILTQFDKMMQVEFNK*	.....
lpg1118	<DDYGFGIGREEINGEIAWSHNGASS.GYQQGYYYFPDRQLTVVILTNYFDS.DIIEDIVSQTLSAIDNSE*	.....
all2656	<TTYGLGIGTLESPNRFWYIHRGQTL.GYRSNMWYSPLENITYIELINARSS.RNLAGATLTLRRYEPPAAMVPEPRITLLSVLLITV...GMLTVRARPGV*	.....
consensus	p.YGhGI.p.c.ss.h.h..pG.o.o.Ga.s.....p.Thh...N.hss.cIL..hs..h...hp.....	.....

esterase-related enzymes

Bcep18194_A6375	..<LSHPAQYGFDDAKRACL DIPKSSLTYLSAQTPRADCRDPARFVFWDTLHPTT RT HAWLAERTIAPFV RARLLN*	.....
gll1890	..<LDAPQDYGLTNTISSPCLTAVAVCA.....NPDEYLFWDEVHPTAAVGQELAEFFTGTI FTSSP*	.....
Gmet_2594	..<VATPAAFGLSVVDRAVCMPDTPPFACQ.....YPDQFLFWDGTHPTQAVHAIMSQEATSALAN*	.....
Nmul_A1186	..<VQNPNMYGLTDVTNPCFTLLGVTC D.....NPEVRLFWDDFHPTTNAHAILGAFAAAA.....VPEPATIFMFMGLGLVLASTAGRRQKTMPARRQV*	.....
Daro_1770	..<LDNPAAYGLNNVV DSCVGN.AACT.....DPGQYFYWDGIHPSTQMHALLANEFLSVI DQHL...VPEPAAALALMALGFS...SLAWSRRRLNG*	.....
consensus	...lppPs.aGhpss.pssh...sssh.....pSpshhawDshHPop.hHAhttp.hssh1.....	.....

alkaline phosphatases

S02281	<NRDFDADF.....VIDTSTGKVKG DASLAGDLGPEGMKFVSADKSPNRQPLLIIGNEVSGTTSVYQIKVQ*	.....
CPS_1758	<NRDFTVDYEMDDDLADPCDSSEGMDCTKVNSAGDLGPESIKFVSAIDSPTSKPLLIIGNEVSGTVTVYQITEQ*	.....
VPA0579	<HRDYTQPV.....CTLVEDGE CANTYNPKAGDLAPESINYF..ARN..GOHFIAVGNEVSGTTSVFRIE I*	.....
alr5291	<NRDFTVPT.....ENADGTTN...PAAGDLGAEGLLFISAADSPTRKPLLVAANEVSGTTTIYSLDIET.VPEPGTMLALGAVVS...TTILRVKRRR*	.....
Ava_2541	<NRDFTVPL.....QNPGGKTN...PLAGDLGPEGLLFISAADSPNQKPLLITANEISGTTTIYSLDIET.VPEPGTMLALGAVVS...TTILRVKRRK*	.....
consensus	pRDaphsh.....ppspshpp...hAGDLtsEthhahSAhcpPp.pPLLhhtNEVSGTTTlyplpl.....	.....

consensus1PEPsThhhhhhhh... hhhhhh+h.....