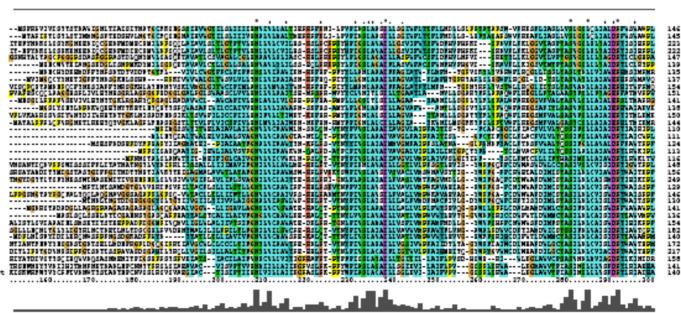
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<b>S2</b>		

ENSCSAVP00000017833 CB pacific sea squir	t
OSIU30 CB sea squirt	
IP 001510779 CB1 platypus	
P21554 CB1 human	
IP 001520568 CB2 platypus	
P34972 CB2 human	
Q9UBY5 LPA-3 hunan	
09HBW0 LPA-2 hunan	
092633 LPA-1 hunan	
095977 S1P-4 hunan	
09H228 S1P-5 human	
095136 S1P-2 hunan	
P21453 S1P-1 hunan	
099500 S1P-3 hunan	
P29274 Adenosine A2a human	
P29275 Adenosine A2b hunan	
GLEAN3 08789 Adenosine sea urchin	
P30542 Adenosine Al human	
P33765 Adenosine A3 human	
GLEAN3 21588 sea urchin	
GLEAN3 22683 sea urchin	
P41596 D1-like fruitfly	
P21728 D1 human	
P21918 D5 human	
GLEAN3 11320 sea urchin	
P21917 D4 human	
P35462 D3 human	
GLEAN3 22684 sea urchin	
Q8IS44 D2-like fruitfly	
P14416 D2 human	
GLEAN3 24900 gea urchin	
GLEAN3 28351 sea urchin	
ENSCINF00000012169 EDG-like-a sea squirt	
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ENSCSAVP0000006186-EDG-like pacific sea	
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ENSCSAVP00000017833 CB pacific sea squirt
Q8IU30 CB sea squirt
IP 001510779 CB1 platypus
P2I554 CB1 human
IP 001520568 CB2 platypus
P34972 CB2 human
09UBY5 LPA-3 hunan
09HBW0 LPA-2 hunan
092633 LPA-1 hunan
095977 S1P-4 hunan
Q9H228 S1P-5 hunan
095136 S1P-2 hunan
P21453 S1P-1 hunan
Q99500 S1P-3 hunan
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P29275 Adenosine A2b human
GLEAN3 08789 Adenosine sea urchin
P30542 Adenogine Al human
P33765 Adenogine A3 human
GLEAN3 21588 sea urchin
GLEAN3 22683 sea urchin
P41596 D1-like fruitfly
P21728 D1 human
P21918 D5 human
GLEAN3 11320 sea urchin
P21917 D4 human
P35462 D3 human
GLEAN3 22584 sea urchin
Q8IS44 D2-like_fruitfly
P14416 D2 human
GLEAN3 24900 sea urchin
GLEAN3 28351 sea urchin
ENSCINF00000012169 EDG-like-a_sea_squirt
ENSCINP00000014702 EDG-like-b_sea_squirt
ENSCSAVP0000006186-EDG-like_pacific_sea_squirt

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EBIKF-IS-REAVLLVTLNWHFGAALIIAFV-AGWNCVC		244
EHIKF-IS-REAVILVVLNWVLGAALIIAPV-AGWNCVC	PPPITNDYI-ITCVVIPPIVIIGIVLCN-AGVEWKVKSHP 2	243
AYERI-VT-RPEAVVAFCVMWTIAIVIAVLPL-LGWNCEE		306
AVED	T.C. SUPERT	305
EYEA L-LT-PGRALAALAAMWLATAAVSFLPL-VGWGCCG		228
SYEA L-LT-RGRALVTLG IMWVLSALVSYLPL-HGWTCCP		220
VHSN-LT-EERVTLLILLVWAIAIFMGAVPT-LGWNCLC		217
LESR-LP-RGEVVHLIVGVWVAALGLGLLPA-ESWECLC	AIDRCSEM	219
IBTR-HS-NRRVVVVIVVIWTNAIVMGAIPS-VGWNCIC	DIENCSNM	236
AESG A-TK-TSEVYGFIGLCWLIAALLGMLPL-LGWNCLC	AFDRCSSL	234
FAFV SS - RGRTLAMAAAAWGVSILLGLLPA - LGWNCLG	RIDACSTV	223
LYGSDK-SCRHLLLIGASWLISLVLGGLPI-LGWNCLG	HI BACSTV	220
LHNGSN-NFRLFLLISACWVISLILGGLPI-HGWNC-I	SAISSCSTVLPLYHKHYIIFCTTVFILLLLSIVILYCRIYSLVFTRS 2	232
FYEA NK- REEVELLIGHCWLIAFTLGALPI -LGWNCLE		226
PYNG L-VT-GTRAKGIIAICWVLSFAIGLTPH-LGWNNCG		208
RYKSL-VT-GTRARGVIAVLWVIAFGIGLTPF-LGWNSKC		213
EYRR V-AT-SECAINILLATWVIAFIIGLTPL-PGWNH		209
EYEH V-VT-PRRAAVAIAGCWILSEVVGLTPH-FGWNNLS		211
EYER	SVHRHDYHYPSPLTWIPIPLVVHCAIYLCIFYIIRNKL 2	208
KHKLI-VT-PRRALLVIVGVWILSFAIAVGPL-FGWRPP		230
EYCEK-HT-KETALIMIAVAWILSEVLSELFV-PS-NIEI	LNPYY-AVIESCISFYIPSSIHIAIYARIFREARROE 2	246
EYGRW-VT-REVAVITIAAIWLLAAFVSFVPISLGIERPE		341
EYERK-HT-PEAAFILISVAWTLSVLISFIPVQLSWEKAK		225
EYERE-HT-QEMALVMVGLAWTLSILISFIPVQLNWHRDQ	ASWGGLDLPNNLANWIPNEI-DFWEPDVNAENCDSELNRTY-AISSSLISFYIPVAIHIVTYRINRIAGVQI 2	256
SYYQR-VN-AINAIILIVVVWVISPLISVLPVMLGLEVDY		224
RYNRQ-GG-SERQLLLIGATWLLSAAVAAPVL-CGLNCV		223
HYCHGTGQ-SS-CREVALMITAVWVIAFAVSCPLL-FGPNT		219
KYYHW-HT-KRMVIAMILCVWGMSALISFIPIHLGWHKDASETSASL	HPSAHLFPLSANLSNPTHPCHCTISPNSITVSHLHPPDIDPGCDYFICALSLNATY-AVFSSLISFIIPCLIHISIYACIFKAVRERH 2	286
EYAKB-KN-SERVCLTILLVWAISAAIGSP-IVLGLNNTP		264
LYNTR-YSSKRRVTVMISIVWVLSFTISCPLL-FGLN	ANPAF-VVYSIVSFVVPFIVILLVYIKIYIVLRRRR 2	220
SYFTR-VT-KEMAGLLIVVVWLASAAISFPCI-LVWRA-V		256
SYFTR-HT-KRMALILIGAAWVCSALISFPCI-WWWHAV		300
RYGT V-FT-NRSAAILIVLTWICAISLPLVAPLVGWSCGE		255
KYNRI-LS-REVIILLIAISWAVSFIMPLIVPLVGWSCQA		242
irt NYSRI-LT-REWILLLIAISWLISFVMPLVIPLVGWSCHC	QSFVPFTKS1ILAGVVYFLISVALHTGFTALFRIVKEKT 2	241
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		231
	s	247
	<u>K</u>	342
	<u>p</u>	226
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	V	224
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	P	257
		300
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squirt		241

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	ARRAKLING RAPERPSGPGPF SETPPAP RLPCDPCGPCCAPP AFGLP RGPCGP	276
		220
		287
	-K <b>Q</b> RAAR <b>KPH</b> LEELT <mark>GGS VIENIA</mark> QTRRLAETALESSRHASRIL <b>P</b> DEA	312
	RINT KESSRAP PABLRAP LIG NI THPIDMKLITY	255
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ENSCSAVP00000017833 CB pacific sea squirt
Q8IU30 CB sea squirt IP_001510779_CB1_platypus
IP 001510779 CB1 platypus
P21554 CB1 human
IP 001520568 CB2 platypus
P34972 CB2 human
Q9UBY5 LPA-3 human
Q9HBW0 LPA-2 hunan
Q92633 LPA-1 hunan
095977 S1P-4 human
Q9H228 S1P-5 hunan
095136 S1P-2 hunan
P21453 S1P-1 human
Q99500 S1P-3 hunan
P29274 Adenosine A2a hunan
P29275 Adenosine A2b human
GLEAN3 08789 Adenosine sea urchin
P30542 Adenogine Al human
P33765 Adenosine A3 human
GLEAN3 21588 sea urchin
GLEAN3 22683 sea urchin
P41596 D1-like fruitfly
P21728_D1_human
P21918_D5_human
GLEAN3 11320 sea urchin
P21917_D4_human
P35462_D3_human
GLEAN3 22684 sea_urchin
Q8IS44_D2-like_fruitfly
P14416 D2 human
GLEAN3 24900 sea urchin
GLEAN3 28351 sea urchin
ENSCINF00000012169 EDG-like-a sea squirt
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ENSCSAVP0000006186-EDG-like_pacific_sea_squi

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059577721-4-buaan			
098126 S1P-5 human			
05135 G1P-2hunan			
P11453 SLP-1 human			260
09950 <sup>°</sup> SIP-3 <sup>°</sup> human <sup>°</sup> FVANHENDSERASTLOYEWIARS SIAULETVY WY FACHAGE PEILPENTY <sup>°</sup> CP-2 <sup>°</sup>		PLTPPENISKASPSSENUALLEVUITVLSVPIACNAPLPILLLLUUG-COVE-	
P39274 Ademosine Ata human			
GLEANA 0799 Ademosine al human  -ALSETVV SCORDERERSLAVEBRUAR LLA VILLPAISALPHIIN CITEL - FEP - 261    P30542 Ademosine Al human  -KVSASSEDPOVY VYERKELAVEBRUAR LLA VILLPAISALPHIIN CITEL - FEP - 261    P30542 Ademosine Al human  -KVSASSEDPOVY VYERKELAVEBRUAR LLA VILLPAISALPHIIN CITEL - FEP - 261    GLEANA 22683 esa urchin  -KVSASSEDPOVY VYERKELAVERUAR LLA VILLPAISALPHIIN CITEL - FE - 261    GLEANA 22683 esa urchin  -KIVSASSEDPOVY VYERKELAVERUAR LLA VILLPAISALPHIIN CITEL - FE - 261    GLEANA 22683 esa urchin  -KIVSASSEDPOVYERKEV VYERKELAVERUAR LLA VILLPAISALPHIIN CITEL - FE - 261    P31595 Dinman  -ILLPAISEN CEPKERVERKEV VERKEV	P29274 Adenogine A2a human	- CHE SOPLPGE RARSTLOK EV BAAK SLA II VGLPALCALPH I INC PTPE - CP	260
P3052 Adenooine Al human	P29275 Adenosine A2b human	-RTELMDHSRTTLORE IBAAKSIAMIVG IPALCMLP VBAVNCVTLF-OPA	262
P32765_Ademosine_A3_human	GLEAN3 08789 Adenosine sea urchin	A ISET VE SODDHSRESELAVE BENARELIA IVILLEA ISHLEHI NCISLI - MEP	267
GLEAN3_21589 eea_urchin	P30542 Adenosine Al human	KKVSASSEDPOKYYEK BLKIAKBIALI LPLPALSALPHILNCITLF-CP	261
GLEANS-22693_Gea_urchin	P33765 Adenosine A3 human		
P41596_D1-like_fruitfly  -SIKAVTPPGEVAEKOPYKSIRREKOPYKSIRREKOVKSDEPAAVTVGVIMGVPLICVVPPCVNITAAF-Cr	GLEAN3 21588 sea urchin		330
P1128 D1 human P12910 D5 human P13910 D5 human P13910 D5 human P13910 D5 human P13910 D5 human P13910 D5 human P13910 D5 human D24PAAPGLPPDPCGPDCAPPA9GLPGCPCGPDCAPPA9GLPGCPCGPDCAPPA9GLPGCPCGPDCAPPA9GLPCCPCGPCGPDCAPPA9GLPCCPCGPCGPDCAPPA9GLPCCPSSCCAPPA9GLPCCPSSCCAPPA9GLPCCPCGPCGPDCAPPA9GLPCCPCGPCGPDCAPPA9GLPCCPSSCCAPPA9GLPCCPSSCCAPPA9GLPCCPCGPCGPCGPCGPCGPCGPCGPCGPCGPCGPCGPCGP			296
P219107D5_human	P41596 D1-like fruitfly		420
GLEANS-11320 sea urchin			
P21917 D4 human		- RISSLERAABBAQSCRSSAACAPDTSLRASIKK <b>EIK</b> VLK <mark>T</mark> ISVIMSVPVCCNLPPPILNCHVPF-CSGHPB	
P35452D2 human			
GLEANS_22364 gea urchin			
Qe15447D2-like fruitfly  Alwassessartersarter1atvLageLageLast  Alwassessartersarter1atvLageLageLast  461    P144167D2 human  Interesternation  Interesternation  1000000000000000000000000000000000000		REILTRENSOCNSVRPGPF9CTLEPDPAHLELKRYSICCDIALGGPGPOERGGELKREEKTRNSLSPTIAPKLSLEVRKLSNGRLSTSIKLGPLOPRGVPLREKKATENVAIVLGAPIVCMLPPPLTEVLNTB-OO	
P14415 <sup>°</sup> D2 human IKKSNGSPPUNEREVEAAFRACELERENUSSISSPERTROSPIPSSHCTLEDPSHGLESTDSPARERKENESGISTONSPARERKENSGAVENGHEKIAKIPETAKIPSTAKINSERKLSCONERKAT HAIVLSVPIICKLPPTIHILINH-CD 400 GLEANS 28351 sea urchin		-NARL <mark>GRLG</mark> SSKNHH <mark>P</mark> DTQYHCNSQAASD <b>HKAAITIGIIMS</b> VPLHCKLPPPINNIVLPI-CA	
GLEANS 29351 ceaurchin 0 0705282851262KKLMSSL5924KLMSSL594KLMSSL594KLMSSL594KLMSSL594KLMSSL594KLMSSL594KLMSSL594KLMS	Q8IS44 D2-like fruitfly	ATNTASCSNEEEDENAISPCIEDCHVIVNDESTEPMLAIVVEETCNVANKELSPVRYCVCEAMILARNDSTISTISETSKESEKKSQASRPTIVEVHKASKKERESSAKKERKATETIAIVLCVPLPCHLPPPCCNIHDAN-CAKPKK	
GLEANS 29351 ceaurchin 0 0705282851262KKLMSSL5924KLMSSL594KLMSSL594KLMSSL594KLMSSL594KLMSSL594KLMSSL594KLMSSL594KLMS	P14416 D2 human	IHERGSPPVNRRRVBAARRACELEMERLSSTSPPERTRYSPIPPSHGLEILPDPSHGLESTPDSPAKPEKNGHAKDHPKIAKIPBICTHPNGETETSLKTMSRRKLSCOKEKKATHHIAIVLGVPIICALPPPITHILNIB-CD	
ENSCINF00000012179 EDG-like-a_sea_squirt ENSCINF00000014702 EDG-like-b_sea_squirt PIRRESNUVSALPRENESNUVSAL SERVENTING SERVENESNUVSALPRENESNUVSALPRENESNUVSALPRENESNUVSALPRENESNUVSALPRENESNUSSENSENSENSENSENSENSENSENSENSENS	GLEAN3_24900_sea_urchin	HIRSGIKLVCAKAADKSHNGAVSLRIERGGGVKSTPNIQBSNNNLHNGLPPEHRPLNVRRCTKIALTQAAGRRLSRNKEHKAAKTIGIVVGVPILCHLPPPIINVHAPF-CPE	
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ENSCSAVP00000006187-EDG-like_pacific_sea_squirt			
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