

10 20 30 40 50 60 70 80 90 100

LOR1 RVTLFVLTLLCYCVIWLINLAIIVTIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTFHVISYAGCLLQGFLVHSSACADFSSILVLMAYDRY

LOR2 RVTLFVLTLLCYCVIWLINLAIIVTIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTFHVISYAGCLLQGFLVHSSACADFSSILVLMAYDRY

LOR3 RVTLFVLTLLCYCVIWLINLAIIVTIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTFHVISYAGCLLQGFLVHSSACADFSSILVLMAYDRY

LOR4 RVTLFVLTLLCYCVIWLINLAIIVTIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTFHVISYAGCLLQGFLVHSSACADFSSILVLMAYDRY

LOR5 RVTLFVLTLLCYCVIWLINLAIIVTIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTFHVISYAGCLLQGFLVHSSACADFSSILVLMAYDRY

LOR6 R6TLFALTLLCYCVIWLNLTIIVVIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTTHVISYAGCLLQGFLVHSSACADFSSLLALMAFDRY

LOR7 R6TLFALTLLCYCVIWLNLTIIVVIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTTHVISYAGCLLQGFLVHSSACADFSSLLALMAFDRY

LOR8 R6TLFALTLLCYCVIWLNLTIIVVIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTTHVISYAGCLLQGFLVHSSACADFSSLLALMAFDRY

LOR9 R6TLFALTLLCYCVIWLNLTIIVVIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTTHVISYAGCLLQGFLVHSSACADFSSLLALMAFDRY

LOR10 R6TLFALTLLCYCVIWLNLTIIVVIIMDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDLLSTTHVISYAGCLLQGFLVHSSACADFSSLLALMAFDRY

LOR11 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIISHQACLQVQFHMFYSLAGAEFLLLAAMAYDRY

LOR12 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIISHQACLQVQFHMFYSLAGAEFLLLAAMAYDRY

LOR13 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIISHQACLQVQFHMFYSLAGAEFLLLAAMAYDRY

LOR14 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIISHQACLQVQFHMFYSLVGAEFLLLAAMAYDRY

LOR15 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIISHQACLQVQFHMFYSLAGAEFLLLAAMAYDRY

LOR16 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAYDRY

LOR17 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAYDRY

LOR18 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAYDRY

LOR19 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAHDRY

LOR20 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAYDRY

LOR21 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAYDRY

LOR22 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAYDRY

LOR23 RYVYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIISHQACLQVQFHMFYSLAGAEFLLLAAMAYDRY

LOR24 RYLYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAYDRY

LOR25 RYLYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAYDRY

LOR26 RYLYFVIMFTIYILIIICNSNVIVYLIWHPNLHEPMYIFIAALLINSVLFSTTIYPKLLIDFLSDKQIITYQACLQVQFHMFYSLG6SEFLLLAAMAYDRY

LOR27 -----YVLIAALLINSVVYSTVFYPKLLIDFLSDKQIITYSACLFQWFIYSLAG6SEFLLLAAMSYDRY

LOR28 -----YVLIAALLINSVVYSTVFYPKLLIDFLSDKQIITYSACLFQWFIYSLAG6SEFLLLAAMSYDRY

LOR29 -----YVLIAALLINSVVYSTVFYPKLLIDFLSDKQIITYSACLFQWFIYSLAG6SEFLLLAAMSYDRY

LOR30 RYPTFVLCLLLIALIVLANFLIIVVISQEKTLHEPMYFFIMCLINSYLSYGSAGFFFRFLRDLLYDTHLISRACFTQTYVIYSYASYELTLLGIMAYDRY

LOR31 RYPTFVLCLLLIALIVLANFLIIVVISQEKTLHEPMYFFIMCLINSYLSYGSAGFFFRFLRDLLYDTHLISRACFTQTYVIYSYASYELTLLGIMAYDRY

LOR32 RYPTFVLCLLLIALIVLANFLIIVVISQEKTLHEPMYFFIMCLINSYLSYGSAGFFFRFLRDLLYDTHLISRACFTQTYVIYSYASYELTLLGIMAYDRY

LOR33 RYPTFVLCLLLIALIVLANFLIIVVISQEKTLHEPMYFFIMCLINSYLSYGSAGFFFRFLRDLLYDTHLISRACFTQTYVIYSYASYELTLLGIMAYDRY

LOR34 RYPTFVLCLLLIALIVLANFLIIVVISQEKTLHEPMYFFIMCLINSYLSYGSAGFFFRFLRDLLYDTHLISRACFTQTYVIYSYASYELTLLGIMAYDRY

LOR35 RYPTFVLCLLLIALIVLANFLIIVVISQEKTLHEPMYFFIMCLINSYLSYGSAGFFFRFLRDLLYDTHLISRACFTQTYVIYSYASYELTLLGIMAYDRY

LOR36 RRLALPFTASYLSVLLGNSLLLYVICSVESLHSPMYLLICMLCVIDILVVTAIIPNMMLGLLFDWDEISLAGCLTQMFFTHFLSSLESTLLVLMALDRY

LOR37 RRLALPFTASYLSVLLGNSLLLYVICSVESLHSPMYLLICMLCVIDILVVTAIIPNMMLGLLFDWDEISLAGCLTQMFFTHFLSSLESTLLVLMALDRY

LOR38 RRLALPFTASYLSVLLGNSLLLYVICSVESLHSPMYLLICMLCVIDILVVTAIIPNMMLGLLFDWDEISLAGCLTQMFFTHFLSSLESTLLVLMALDRY

LOR39 RRLALPFTASYLSVLLGNSLLLYVICSVESLHSPMYLLICMLCVIDILVVTAIIPNMMLGLLFDWDEISLAGCLTQMFFTHFLSSLESTLLVLMALDRY

LOR40 RRLALPFTASYLSVLLGNSLLLYVICSVESLHSPMYLLICMLCVIDILVVTAIIPNMMLGLLFDWDEISLAGCLTQMFFTHFLSSLESTLLVLMALDRY

LOR41 RRLALPFTASYLSVLLGNSLLLYVICSVESLHSPMYLLICMLCVIDILVVTAIIPNMMLGLLFDWDEISLAGCLTQMFFTHFLSSLESTLLVLMALDRY

LOR42 RRLALPFTASYLSVLLGNSLLLYVICSVESLHSPMYLLICMLCVIDILVVTAIIPNMMLGLLFDWDEISLAGCLTQMFFTHFLSSLESTLLVLMALDRY

LOR43 KYPJFFLGLIYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR44 KYPJFFLGLIYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR45 KYPJFFLGLIYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR46 KYPJFFLGLIYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR47 KYPJFFLGLIYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR48 IYPVFSLILFSYLFIMVTNVGIAALVFDKNLHQPMYLLFCNLPINDILGNSIILLRLLVDILLSERLISYECVVQAFTHMF6TTSHTVLMIMAFDRY

LOR49 IYPVFSLILFSYLFIMVTNVGIAALVFDKNLHQPMYLLFCNLPINDILGNSIILLRLLVDILLSERLISYECVVQAFTHMF6TTSHTVLMIMAFDRY

LOR50 IYPVFSLILFSYLFIMVTNVGIAALVFDKNLHQPMYLLFCNLPINDILGNSIILLRLLVDILLSERLISYECVVQAFTHMF6TTSHTVLMIMAFDRY

LOR51 IYPVFSLILFSYLFIMVTNVGIAALVFDKNLHQPMYLLFCNLPINDILGNSIILLRLLVDILLSERLISYECVVQAFTHMF6TTSHTVLMIMAFDRY

LOR52 IYPVFSLILFSYLFIMVTNVGIAALVFDKNLHQPMYLLFCNLPINDILGNSIILLRLLVDILLSERLISYECVVQAFTHMF6TTSHTVLMIMAFDRY

LOR53 IYPVFSLILFSYLFIMVTNVGIAALVFDKNLHQPMYLLFCNLPINDILGNSIILLRLLVDILLSERLISYECVVQAFTHMF6TTSHTVLMIMAFDRY

LOR54 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR55 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR56 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR57 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR58 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR59 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR60 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR61 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR62 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR63 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR64 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR65 IYPVYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVTNK--VYYPCLVLQAFLLHMYGGGILFILAAMSFDRY

LOR66 KYPJFIFLLSYMFILIANVGIVILWIKERSLHQPMYLLFCNLSINDVMGNSLLVPRVLADILVSDRLIHYECVMQAFTHMF6TTSHTVLMIMAFDRY

LOR67 KYPJFIFLLSYMFILIANVGIVILWIKERSLHQPMYLLFCNLSINDVMGNSLLVPRVLADILVSDRLIHYECVMQAFTHMF6TTSHTVLMIMAFDRY

LOR68 KYPJFIFLLSYMFILIANVGIVILWIKERSLHQPMYLLFCNLSINDVMGNSLLVPRVLADILVSDRLIHYECVMQAFTHMF6TTSHTVLMIMAFDRY

LOR69 KYPJFIFLLSYMFILIANVGIVILWIKERSLHQPMYLLFCNLSINDVMGNSLLVPRVLADILVSDRLIHYECVMQAFTHMF6TTSHTVLMIMAFDRY

LOR70 KYPJFIFLLSYMFILIANVGIVILWIKERSLHQPMYLLFCNLSINDVMGNSLLVPRVLADILVSDRLIHYECVMQAFTHMF6TTSHTVLMIMAFDRY

LOR71 KYPJFIFLLSYMFILIANVGIVILWIKERSLHQPMYLLFCNLSINDVMGNSLLVPRVLADILVSDRLIHYECVMQAFTHMF6TTSHTVLMIMAFDRY

LOR72 RVVFSTLIGMPCCFLFINGIMLFTLRSAKAFRETCRYIILYNLLFSDTVL--LALSQLYIMACRILPTYPVCGVLTMLNRLTNEISPLTLVVMCLERY

LOR73 RVVFSTLIGMPCCFLFINGIMLFTLRSAKAFRETCRYIILYNLLFSDTVL--LALSQLYIMACRILPTYPVCGVLTMLNRLTNEISPLTLVVMCLERY

LOR74 RVVFSTLIGMPCCFLFINGIMLFTLRSAKAFRETCRYIILYNLLFSDTVL--LALSQLYIMACRILPTYPVCGVLTMLNRLTNEISPLTLVVMCLERY

LOR75 RVVFSTLIGMPCCFLFINGIMLFTLRSAKAFRETCRYIILYNLLFSDTVL--LALSQLYIMACRILPTYPVCGVLTMLNRLTNEISPLTLVVMCLERY

LOR76 RVVFSTLIGMPCCFLFINGIMLFTLRSAKAFRETCRYIILYNLLFSDTVL--LALSQLYIMACRILPTYPVCGVLTMLNRLTNEISPLTLVVMCLERY

LOR77 RVVFSTLIGMPCCFLFINGIMLFTLRSAKAFRETCRYIILYNLLFSDTVL--LALSQLYIMACRILPTYPVCGVLTMLNRLTNEISPLTLVVMCLERY

LOR78 RILFTTLTGMPCCFLFLLINGIMLFTLRSAKAFRETSRYIILYNLLFADTFM--LAVSQQLYIMACRLITTPVCGVITLLTILTNEISPLTLVVMCLERY

LOR79 RILFTTLTGMPCCFLFLLINGIMLFTLRSAKAFRETSRYIILYNLLFADTFM--LAVSQQLYIMACRLITTPVCGVITLLTILTNEISPLTLVVMCLERY

LOR80 RILFTTLTGMPCCFLFLLINGIMLFTLRSAKAFRETSRYIILYNLLFADTFM--LAVSQQLYIMACRLITTPVCGVITLLTILTNEISPLTLVVMCLERY

LOR81 RILFTTLTGMPCCFLFLLINGIMLFTLRSAKAFRETSRYIILYNLLFADTFM--LAVSQQLYIMACRLITTPVCGVITLLTILTNEISPLTLVVMCLERY

LOR82 RILFTTLTGMPCCFLFLLINGIMLFTLRSAKAFRETSRYIILYNLLFADTFM--LAVSQQLYIMACRLITTPVCGVITLLTILTNEISPLTLVVMCLERY

LOR83 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR84 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR85 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR86 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR87 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR88 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR89 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR90 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR91 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR92 AVTKNVIVVFIGISITYINASLIHTFSKHQFYTNPRYILFIHLVINDMIQ--VSLTIILFVISTIYRINVSVCVFILLALFTTENTPLNLACMAAECY

LOR93 MNDLVIIVQILVVIFLCVNMMLLIVTFFSKEFYTTMRYILFAVTLSDSLM--LFVSDILLILSYRVTMQFGLCIIFYILSVICIFVTPVTLTAMALERY

LOR94 MNDLVIIVQILVVIFLCVNMMLLIVTFFSKEFYTTMRYILFAVTLSDSLM--LFVSDILLILSYRVTMQFGLCIIFYILSVICIFVTPVTLTAMALERY

LOR95 MNDLVIIVQILVVIFLCVNMMLLIVTFFSKEFYTTMRYILFAVTLSDSLM--LFVSDILLILSYRVTMQFGLCIIFYILSVICIFVTPVTLTAMALERY

LOR96 MNDLVIIVQILVVIFLCVNMMLLIVTFFSKEFYTTMRYILFAVTLSDSLM--LFVSDILLILSYRVTMQFGLCIIFYILSVICIFVTPVTLTAMALERY

LOR97 MNDLVIIVQILVVIFLCVNMMLLIVTFFSKEFYTTMRYILFAVTLSDSLM--LFVSDILLILSYRVTMQFGLCIIFYILSVICIFVTPVTLTAMALERY

LOR98 MNDLVIIVQILVVIFLCVNMMLLIVTFFSKEFYTTMRYILFAVTLSDSLM--LFVSDILLILSYRVTMQFGLCIIFYILSVICIFVTPVTLTAMALERY

LOR99 -----ERY

LOR100 -----ERY

LOR101 -----ERY

LOR102 -----ERY

LOR103 -----ERY

LOR104 -----ERY

LOR105 -----ERY

LOR106 -----ERY

LOR107 -----ERY

LOR108 -----ERY

LOR109 -----ERY

LOR110 -----ERY

LOR111 -----ERY

Fugu_OR123-1 KITLFVFTFLYYCVILQVNLTVILTIIVDKSLHEPMYIFLCNLCINGLYGTAGFYPKFLIDILSTSHVISYAGCLLQAFVLHSSACADFSSILVLMAYDRY

Fugu_OR6765-1 KFTLFALTFCVYCVIVQVNVTLILTIIMDKSLHEPMYIFLCNLCINSYLYGTAGFYPKFLIDILSTSHVISYAGCLLQVSLVHSSVCAADFSSILVLMAYDRY

Fugu_OR4133-1 RFTLFALTFCVYCVIVQVNVTLILTIIMDKSLHEPMYIFLCNLCINSYLYGTAGFYPKFLIDILSTSHVISYAGCLLQVSLVHSSVCAADFSSILVLMAYDRY

Fugu_OR3630-2 RYLYFVIMLTAYILIIICNSNTIVFLICFHRNLHEPMYVLIALLINSVLYSTAIYPKLLIDFLSEEQTITYSVCLFQWFMFYSLG6SEFLLLAAMAYDRY

Fugu_OR8617-1 RYLYFVIMLTAYILIIICNSNTIVFLICFHRNLHEPMYVLIALLINSVLYSTAIYPKLLIDFLSEEQTITYSVCLFQWFMFYSLG6SEFLLLAAMAYDRY

Fugu_OR5510-1 RYLYFVIMLTAYILIIICNSNTIVFLICFHRNLHEPMYVLIALLINSVLYSTAIYPKLLIDFLSEEQTITYSVCLFQWFMFYSLG6SEFLLLAAMAYDRY

Fugu_OR117-1 RYLAFLVCFILYASIVFANVIVVVISRENAHEPMYIFIMCLSNLSYLYGSAGFFFRFLKDLLSSTHLSRWG6CFAQIYVITYYASYELTLLSIMAYDRY

Fugu_OR2346-5 RYLAFLVCFILYASIVFANVIVVVISRENAHEPMYIFIMCLSNLSYLYGSAGFFFRFLKDLLSSTHLSRWG6CFAQIYVITYYASYELTLLSIMAYDRY

Fugu_OR5287-2 RRLALPFSVSYLSVLLGNSLLLYVICSVEHLHSPMYLLICSLCVDVLAATAILPSMMLSLFLD6DTISLASCLTQMFFTHFLSSLESTLLAMALDRY

Fugu_OR142-1 KYPJFFLGLIYLF6IFCNLTLLSLIILQKNLHKPMYFILFSLPLNDLVGITAMLPKVLSDIVMNR--VHYGLCVFQAFLLHMYGGGILFILAAMSFDRY

Fugu_OR1026-2 YPVVFFFLVSYIFIMLSNIGVALIFIDSSLHQPMYLLFCNLPINDILGNSIILLRLLVDILLSERLITYYECVVQAFTHMF6TTSHTVLMIMAFDRY

Fugu_OR8298-1 YPVVFFFLVSYIFIVANIAVALIFIDSSLHQPMYLLFCNLPINDILGNSIILLRLLVDILLSERLITYYECVVQAFTHMF6TTSHTVLMIMAFDRY

Fugu_OR6030-1 RMMFSSLTTPCCAFLYINGIMLFSRLSKFTCETSRYILLFNLLFADSIQ--MVLGQALYILACLIKMTYPVCGIITLALGVLTSNISPLTLVVMCLERY

Fugu_OR59-1 RMMFSSLTTPCCAFLYINGIMLFSRLSKFTCETSRYILLFNLLFADSIQ--MVLGQALYILACLIKMTYPVCGIITLALGVLTSNISPLTLVVMCLERY

Fugu_OR4208-3 LIIR-----CGLTCCVCPRCVPVQFYTNPRYILFIHLVINDMIQ--VMLTVMFLFIISVLYKINVSFCGVFILLALFTTENTPLNLACMALECY

Fugu_OR4208-2 -----FYMNPRIYILFIHLVINDMIQ--VNMVIMLFVISTIYRINICMCMVFMMLAVVATENSPLNLACMALECY

Fugu_OR6818-1 INSRVILVQVLVFLCINFLIIVTFSMRHFYTTMRYILFAVTLSDSVL--LLLTDVMLILSFAVTIEMWCVTLTVVVLALYTFVTPVTLTAMTLERY

Fugu_OR7903-1 IFERIITQLIVSYIFVSDNLFLIATVFSNQFLSTMRYYILFVITVSDSVF--LIANLLLIHTYFTIEVSLCIVFYLIVCLSVFVTPVTLTAMTLERY

Pufferfish_OR8981-2 RFLIFALTFCVYCVIVQVNVTLILIIIIIDKSLHEPMYIFLCNLCINALYGTAGFYPKFLMDILSDSHVISYAGCLLQVSLVTSSTCNDDFFFLVIMGYDRY

Pufferfish_SCAF8981 RFTLFALTFCVYCVIVQVNVTLILIIIIIDKSLHEPMYIFLCNLCINALYGTAGFYPKFLMDILSDSHVISYAGCLLQVSLVTSSTCNDDFFFLVIMGYDRY

[illegible]

Stickleback_OR1.1
 Stickleback_OR16.3
 Stickleback_OR1.12
 Stickleback_OR1.13
 Stickleback_ORUn.9
 Stickleback_OR7.1
 Stickleback_ORUn.6
 Stickleback_ORUn.8
 Stickleback_OR1.18
 Stickleback_OR16.10
 Stickleback_OR16.32
 Stickleback_OR16.1
 Stickleback_OR16.5
 Stickleback_ORUn.1
 Stickleback_ORUn.17
 Zebrafish_OR126-7
 Zebrafish_OR126-3
 Zebrafish_OR123-1
 Zebrafish_OR125-1
 Zebrafish_OR127-1
 Zebrafish_OR128-10
 Zebrafish_OR116-2
 Zebrafish_zor6a
 Zebrafish_OR117-1
 Zebrafish_OR115-15
 Zebrafish_OR133-7
 Zebrafish_OR132-1
 Zebrafish_OR134-1
 Zebrafish_OR131-2
 Zebrafish_OR131-1
 Goldfish_OR3
 Goldfish_OR2
 Rainbow_trout_OR500-1
 Cutthroat_trout_OR600-1
 Brown_trout_OR500-1
 Atlantic_salmon_SORB
 Medaka_mfOR2
 Medaka_mfOR1
 Medaka_OR_Y3
 Medaka_ORY1
 Frog_OR-52D1
 Frog_OR-52E8
 Frog_OR-52A1
 Frog_OR-52P1
 Frog_OR-52A5
 Frog_OR-2M5
 Frog_OR-2M2
 zebrafish_OR10.1
 zebrafish_OR10.14
 zebrafish_OR15.39
 Medaka_ORUn.6
 Medaka_ORUn.28
 Medaka_ORUn.27
 Stickleback_OR7.3
 Stickleback_OR7.4
 Stickleback_OR7.8
 Fugu_ORUn.83
 Fugu_ORUn.20
 Pufferfish_OR7.1
 Pufferfish_OR7.3
 zebrafish_OR10.29
 zebrafish_OR10.31
 zebrafish_OR15.58
 zebrafish_OR15.57
 Medaka_OR13.1
 Medaka_OR13.3
 Stickleback_OR1.25
 Fugu_ORUn.8
 Pufferfish_OR16.7
 Frog_OR669.1
 Amphioxus_105.1
 Amphioxus_39.1

LAIVCQPLRYTEMVGASALSRLLLLLAVRS6SIMATVLSVLAGSLRFC6SDVIRHCYCDHMAVLNACG6STE-RNMMVAGLAVICFVGVDIPLIFFSVYVKIL
VAICRPLRVHVSMLKRRLLILVFSWFTTFICSSNTMILTSLRHLCS-PYIDRLKYCMVSNVIVKLACFPADITFNNTLANVTNIFYLGHVLMVSVSVYVVI
VAICFPLRHGELCSTRRALHCVLIIHISISIPPCIVVLSFFAS--VSHFYGRCVSNVEMFIIYKWGHLSRAVSQYFFIFIAIVFCYIKIMKVAKAA
VAICKPLRHGELCSTRRALHCVLIIHISISAIPSFVLLSTFFAS--ASHFYGSQVRECAVEMFIFHKWQGHLSRSAMSQYFFIFIMFIAIVFCYIKIMKVAKAA
VAVCRPLRHAALVTPRSTMAAAVAAVAFSSNLVLTQVVLILDFDFDQLSLRMDGFC6SKRGVNMGLAA5EYVDRGYTCFLFVSVSAVVSVVAAVMAARSA
VAICFPLRHASVITVTRTGAAVAVMTVSGLESFQVFLVRL--EN-ITVMRCS-QDFFQLQIYLANMK6FTTITFVLVSMISYTYVYVIVAVAKSA
VAICYPLQYNMIMTNKMMVKMLTASAGVALVLVGLLLGLTLRLNRCR-TLITNPYCDNASFLKLSCE-SVLINNIYGLTFTVVLTTGSGSMWITYTKIT
VAICYPLQYNMIMTNKMMVKMLTASAGVALVLVGLLLGLTLRLNRCR-TLITNPYCDNASFLKLSCE-SVLINNIYGLTFTVVLTTGSGSMWITYTKIT
VAICMPLRVSSMTNPRVCIISLWGLDFVLITLSFSLQTLRPRCK-SVIMNVPYCDNPSSLKLTG6-NTTVNNVGLLFTTAAQVSVSIQFVSYVKIL
VAICQPLNHYNKKITSKAVSKLVAFAWYPCFSIATCVYLSFRLPLC6-NKIPKVCANWPVVKLSC-VSTVINNLVGMFVSISTFVLPFAVFMFTYIRII
VAICRPLRVHSGMTRQRCMCFVFEAWLIPFLILISTVYTSATSLRCK-SHIPKIFCVNNLISRMACSA--VGTIVAPAFNTFYF6GFLPFCWMSYIMY
VAICQPLNHYNKKITSKAVSKLVAFAWYPCFSIATCVYLSFRLPLC6-NKIPKVCANWPVVKLSC-VSTVINNLVGMFVSISTFVLPFAVFMFTYIRII
VAICQPLNHYNKKITSKAVSKLVAFAWYPCFSIATCVYLSFRLPLC6-NKIPKVCANWPVVKLSC-VSTVINNLVGMFVSISTFVLPFAVFMFTYIRII
VSICKPLQYHTIMKKTIVRLLAAAWCPFAAQJAVTPVTASANTKLCT-FLTR6GFCNN-SYKYLCHVSSR-VLSLYGVZVLGNVNLPLFVLVFTYTKIT
VSIQNPLQYTTIMQRTTVYVIFLCSAWILPACLVSVLILLNAKKRICT-FHLKGILCNS-SVQTLQCARSL-IVNIY6-LILVTLFVPPVFFIYFSYKIL
VAICRPLEYHVSMTNQRVVEILFCWLPALFCSMLLIVLLSLRVLC6-STIEKLYCEZWAVALKSCFSN--TVNNVFGLTIVLYF6GHLVILCYSFQILI
VAICRPLEYHVSMTNQRVVEILFCWLPALFCSMLLIVLLSLRVLC6-STIEKLYCEZWAVALKSCFT--TLNNVFGYVIVIAVGHATLIFYCSYIYL
VAICRPLYYHNMIMTIVTWMLLTFIWMFPCCATAILLIMTLRFPICIT-KKISKLYCETWILERLVCGVD--TAQFVFN6GILCAVNALVWVFLSYNILL
VAICKPLDYHSLRTKNTCKVLILFSWIPVTSFVASILLNSLRAFCK-YHIDRLKYCDNWSIVKLSCVSS--FVNNVFGY6IAVIFFSVFLVLIIFSXYKIL
VAICNPLRVHSMKSLRLTARYMAMASCVVFSMALVIFFSAKPLC6-TDVIIRLYCSNWSVVLSC6GTSLSNNILGFFVTIVLTFPAFLIFYIRIL
VAICKPLQYNISMTPRLNLSVIALSWYPMPLCGAAILNARLTMCG-NKLMKYGVCHNWZEVKLC-ASTIINNVP6FFITVITVIMPSFLSIFYSVKIL
VAICMPLRYNALTMPRVMGZVALVGLDFFLIIITLFAVLSQYSKRCR-SDILNVPYCDNPSSLKLTCS-NTVINSIQLFNTAMIQIIVSVSIQAFVSYKIL
VAICKPLHYNEIMNSSMFLKLFLLTIRLS6TIMSTLVALSPLSC6SNVIYHCYCDHMAVLNACDSIA-QNQTMGILVIVICF6GIDTSVIFFSYVKIL
IAICNPLRYNSMTSPRTSIFGLIAFAWVGLDFAVITVLVLSQARLVKCK-SFTINVPYCDNPSSLVLS6G6GLSVNNIYGLFATFQITSVFIQMSY6CIV
VAICNPLRVYQITMNTKIVTILSALAWGIALLFSLIGLTLRLSRCR-FETISNPFCDNASFLKLSCE-DVTNINLYGLTYVLTLF6SGMSGAVITYAIKIT
VAICFPLRHAFTSKFRHTAICVWVWLGLIQCLSEMIIFYSF--DNNISMNLFCSRTHLFLRLQIYKKFDAICTFFVFLVSFVIIFTYASISAVAKTA
VAICFPLRHCTAHAPTKRTGIAIGIYFLSSVNVZDIIAILN--NPPYLAZAFPCTLEKFIKAWQIDKS6GDFVLVYFSVAVTIIFTYIMIMTARSHV
IAICYPLRHAQTYKTHRAYVILGVIVFVSVPDITDLFVLAT--EPLFFLTSVYCLRNQVFKDPPLLKRYQAF6DIYFSLVLTLLCTYLKMTFAHSY
VAICLPLRHASISSPKNTINGLLIIVGVSSVPLFFIFVSVFTY--TPPAMNSYVVCSDNVMFQVKWLAEMRALSQQLFVIMLCIG6STYIKIMVAAKSA
VAICLPLRHASISSPKNIINGLLIIVGVSSVPLFVIF6GSFAY--TPPAMNSYVVCSEIEMVLQVKWALDTRATSQQLFVIMLCIG6STYIKIMVAAKSA
VAICRPLEYHVSMTNQRVVEILFCWLPALFCSMVVIVLTLRLC6-SSIEKLYCENWSVVKLSFST--TVNNVFGYVITIIYF6GHAULIFYCSYHIL
VAICNPLRVYNYVTIKLNFICGLLAAWVLTNTCPLMIAITRAYPLPYC6GT-IHICYDHHSITSLACTN-RALYGVPAFAIAVWVLGLAFIIFYSCAII
VAICRPLRYITVTSVLTKRLLCLFSWCYPLTAFASVLAVALRPLC6-SRIDIKFCIDPSILKHAACSPI--TINQNKLKFIYVWVLGLPFIIFYVFSYQIV
VAICNPLRYATIMTNKMMVIRLSMSAGVAVIYVGLLLGLTLRLSRCR-SNIFNPYCDNASFLKLSCE-NVFINNIIYGLIFTVVLVFSII6SISLTYLKIA
VAICRPLRYITVTSVLTKRLLCLFSWCYPLFAGLAVSLTARLSLCK-CRIDIKFCIDNPSSLKHAACPI--TINQNKLKFIYVWVLGLPFIIFYVFSYQIV
VAICNPLRVYSIMTNKMIIRLSVASAGVAVIYVGLLLGLTLRLSRCR-TLITNPFCDNASFLKLSCE-SVFINNIIYGLTFTVLVFSII6SISIALTYMKIA
VSICKPLQYQSLMSKRRVTVMILSILSWLWPLFQTLVAISVINQRPCS-FSLEGIFCDS-ALQRLICKLE-ELAVLDMILFNITVLPFLFIFYCIL
VSIQKPLQVQSLMSKRRVTVMILSILSWLWPLFQTLVAISVINQRPCS-FSLEGIFCDS-ALQRLICKLE-ELAVLDMILFNITVLPFLFIFYIRIL
VAICNPLRYTNMTNRMVLTFLFVWAGVAVLVLGILLGLTLRLSRCR-TLITNPFCDNASFLKLSCE-SVFINNIIYGLTFTVLVFSII6SISIALTYSTYS
VAICNPLRYANIMTSMRIKLTVFVWGVFVWVAVLLGLTLRLNRCR-TLITNPFCDNASFLKLSCE-SVFINNIIYGLTFTVAVLLTSSIG6SVILTYSKIT
VCICNPLRYSSIMSLATVFKLIGAAWLVIALIAILVLLIRLPLC6-SVIQIKYCDNWSVVKLSC-TDITANNVFG6LLITAAIIGLMPILITLMSYAQIL
MCICNPLRYHSLMT6TVLKLIGAAWLVIALIIVLTIVHVLTLRLPLC6-SVIQIKYCDNWSVVKLSC-IDITLNNVFG6LLMS-ITGLLPG6VLISYVKIL
VAICRPLRVHNMITKNLLAWLTVTIVRSFILVCPVLVLSVMVQFCRLNIIIFNFCENMALLSLG6GDDT-KPIQIAGLVRIIVLTVLDSVLSISYSTIL
VAICRPLRVHNMITTSFLAWLTIVLIRLCLTCLPILVLSVMVQFCRLNIIIFNFCENMALLSGLG6GDDT-KPIQIAGLVRIIVLTVLDSVLSISYSTIL
VAICFPLRHSEFCTQRSAIALVGIWAGILPINIADCIILSTS--VPSFFSLHVICARSAFMNTSVQTLIRNLKPIHGLISFTVLGLIIIFYIKIMMVALRV
VAICHPLRHTECEG6HRLTMAIALMWTGLTPNVAIDFTSLS--ANKYFSPLHVCISRESLTNVPQNTSRNSVLTIVSLVALIILYIKVMLVARKV
VAICQPLRYHHSIKNLVTLLCYLWVFAALIGSVAIVIGQPLPYC6R-VKNICFVSNASAVALACVD-VTLARRVTFLAMCULLPLAVIILSYVLI
IAICFPLRHESINTNSRMAYIISAVWFFCVVTLTYAVFSILTSLFC6SE-MNSYFCDYTPVLVLA6SD-ITQQLNYATAATILF6VASIFIFFYIGIL
VAICLPLRYHMTVFRSMVLIGLTLWALTLMVMTATIFISLRFCKSVTVNSFYCDHG6IYRSACSN-NFPSSNIGSLYIPVTLGLPFFIIFYSYKIL
VAICWPLRVSTNTRLMLIIAILIIVLTLDFIPVTFASRLPYC6SA-LSSCC6HG6PYVRLACD-TYNNRQLGVTKMTITLGLPFFIIFYTYVIV
VAICFALRQNSINTVRS MCCIITITWCYILGVTAYSVALITKLSFC6SK-VFSYFCDYAPYVRLACND-NSKQW6AF6FFSVLNLGLPFTFIVSVSLT
VAIMFPLQYQVTVTKIMLSIIAFLFVIAVSTAAGLLRLSFCSNV-INSYFCDHG6IYF6IACNDYSPNDSYFSDVLIAIILVIIVISSYVIG
VAITFPLHYQLRVNQTFMLSMIA5FWFTITVLSGLLTLRFSCKSV-INSYFCDHG6IYRLACND-NFPNDVVSFFYPVTFWLPVLVILSSYLYG
IAICPLMRQNLFTNLPIMLC6VGGTWWYNLGRHADAITMRLSFCNSV-VNSYFCDYAPYVRLACND-YTLHWASSTSSNMVLPFTFIVLSYLSL
IAICFPLRHNSVNTLQSCMIGCTFWSFSGVAFSTGEMTGLSFC6SKR-VFSYFCDYAPYVRLACND-YAMQWASAF6SFMILG6GPFVITLSYVTL
IAIIPHLHYQVRVTHRFMLSLIAFFWVFATTAVLIAVGLTLRSLFC6RSA-INSYFCDHG6IYRLACND-NFPNIVVSLCLFPVIFWLPFFIIFYLYG
VAITFPLHYQVRVTHRFMLSLIAFFWVFATTAVLIAVGLTLRSLFC6SKR-INSYFCDHG6IYRLACND-NFPNIVVSLCLFPVIFWLPFFIIFYLYG
IAICFPLQNSINTLRSMSICVAVTYSYSLGLVAFSTGEMTGLSFC6SKT-VRSYFCDYAPYVRLACND-YTLHWASSTSSNMVLPFTFIVLSYVTL
VAITYPLHYQVRVTHRFMISMIA5FWAFIIVAVLIAVGLTLRSLFC6SKSV-VSHYFCDHG6IYRLACND-HFPNIVVSLCLFPVIFWLPFFIIFYLYG
IAICFPLQNSINTLRSMSWZAVTWCYSLGLAASFASVNTLWLSFCKSE-VSYFCDYAPYVRLACND-NTLHWASSTSSNMVLPFTFIVLYTALIT
VAICYSRLQYQVTNRVYITLITAWTAFIAPTAVTLTDQPLPYC6PL-IHICYDHHSITSLACAE-NKLMVGLLACMALLVLLPLFIICYSYCHII
LAICHPRLRYVPLMTNRTMRLLVGFSWMTAMIAPISSLTLLKLP6CP6M-IPHCFCDLSMNLQACAD-ASFYNILFAG6VAMFVLLVPLSFIIFYSYALIT
VAICNPLRYHTLIKNISLITACFIWMTANMLLG6VTLTLLSVKYCGSV-IPHCYCDHVSISKLAC6D-AATMKTVTSIAAMFVLW6PLSFIIFYSVSII
VAVCNPLRVCLITNKITLLACFVIMLCLTSWLTFMVYNTDEPYCG6SI-ITQNYCDHNSIILK6G6D-IGQKKFYSP6AMFVLL6PLFIIFYFSFTAI
VAVMFLRYPAITINNTISACSLWTFITRIMMGLVHASSLSFCK6-ILQCFCDHASTIKLACGENVAFVQVAFANAMVTLPLSFIIFYFSYII
VAVCPLRVPLVITNNTISVLC6FAWFIAPLMTIVLHATLSYKSI-IAQCYCDHISLTNQGCG6NLRQVQTLCIAMCLLLPLAFIIFYSVSII
IAICPLRVPLVITNNTISVLC6FAWFIAPLMTIVLHATLSYKSI-IAQCYCDHISLTNQGCG6NLRQVQTLCIAMCLLLPLAFIIFYSVSII
IAICPLRVPLVITNNTISVLC6FAWFIAPLMTIVLHATLSYKSI-IAQCYCDHISLTNQGCG6NLRQVQTLCIAMCLLLPLAFIIFYSVSII
ISICLPLRYTLVSTKFSALC6GAWFFVPLSVMTIIVQALPLTCEPL-IQVCFCDHISITNAC6EGVQSVRVSTGLIALCLLLPLAFIIFYSVSII
IAICHPRLYACIMTNRTIAILCCFFWIFAAAIASAVITILDSTVPIC

LOR59
LOR60
LOR61
LOR62
LOR63
LOR64
LOR65
LOR66
LOR67
LOR68
LOR69
LOR70
LOR71
LOR72
LOR73
LOR74
LOR75
LOR76
LOR77
LOR78
LOR79
LOR80
LOR81
LOR82
LOR83
LOR84
LOR85
LOR86
LOR87
LOR88
LOR89
LOR90
LOR91
LOR92
LOR93
LOR94
LOR95
LOR96
LOR97
LOR98
LOR99
LOR100
LOR101
LOR102
LOR103
LOR104
LOR105
LOR106
LOR107
LOR108
LOR109
LOR110
LOR111
Fugu_OR123-1
Fugu_OR6765-1
Fugu_OR4133-1
Fugu_OR3630-2
Fugu_OR8617-1
Fugu_OR5510-1
Fugu_OR117-1
Fugu_OR2346-5
Fugu_OR5287-2
Fugu_OR142-1
Fugu_OR1026-2
Fugu_OR8298-1
Fugu_OR6030-1
Fugu_OR59-1
Fugu_OR4208-3
Fugu_OR4208-2
Fugu_OR6818-1
Fugu_OR7903-1
Pufferfish_OR8981-2
Pufferfish_SCAF8981
Pufferfish_OR15134-1
Pufferfish_OR14339-2
Pufferfish_OR14328-1
Pufferfish_OR14677-8
Pufferfish_OR14536-2
Pufferfish_OR14536-1
Pufferfish_OR10960-2
Pufferfish_OR10960-3
Pufferfish_OR12434-1
Medaka_ORUn.33
Medaka_ORUn.2
Medaka_OR21.18
Medaka_OR21.19
Medaka_OR21.20
Medaka_OR13.14
Medaka_OR13.12
Medaka_ORUn.23
Medaka_ORUn.21
Medaka_OR14.15
Medaka_OR14.13
Medaka_OR14.4
Medaka_OR16.4
Medaka_OR13.4
Medaka_OR13.5
Medaka_OR13.6
Medaka_OR13.7
Medaka_ORUn.1
Medaka_OR21.2
Medaka_OR21.3
Stickleback_OR1.1
Stickleback_OR16.3
Stickleback_OR1.12
Stickleback_ORUn.13
Stickleback_ORUn.9
Stickleback_OR7.1
Stickleback_ORUn.6
Stickleback_ORUn.8
Stickleback_OR1.18
Stickleback_OR116.10
Stickleback_OR16.32
Stickleback_OR16.1
Stickleback_OR16.5
Stickleback_ORUn.1
Stickleback_ORUn.17
Zebrafish_OR126-7
Zebrafish_or126-3
Zebrafish_OR123-1
Zebrafish_OR125-1
Zebrafish_OR127-1
Zebrafish_OR128-10
Zebrafish_OR116-2
Zebrafish_zor6a
Zebrafish_OR117-1
Zebrafish_OR115-15
Zebrafish_OR123-1
Zebrafish_OR132-1
Zebrafish_OR134-1
Zebrafish_OR131-2

[illegible]

Zebrafish_OR131-1
Goldfish_OR3
Goldfish_OR2
Rainbow_trout_OR500-1
Cutthroat_trout_OR600-1
Brown_trout_OR500-1
Atlantic_salmon_SORB
Medaka_mfOR2
Medaka_mfOR1
Medaka_OR_Y3
Medaka_ORY1
Frog_OR-52D1
Frog_OR-52E8
Frog_OR-52A1
Frog_OR-52P1
Frog_OR-52A5
Frog_OR-2M5
Frog_OR-2M2
zebrafish_OR10.1
zebrafish_OR10.14
zebrafish_OR15.39
Medaka_ORUn.6
Medaka_ORUn.28
Medaka_ORUn.27
Stickleback_OR7.3
Stickleback_OR7.4
Stickleback_OR7.8
Fugu_ORUn.83
Fugu_ORUn.20
Pufferfish_OR7.1
Pufferfish_OR7.3
zebrafish_OR10.29
zebrafish_OR10.31
zebrafish_OR15.58
zebrafish_OR15.57
Medaka_OR13.1
Medaka_OR13.3
Stickleback_OR1.25
Fugu_ORUn.8
Pufferfish_OR16.7
Frog_OR669.1
Amphioxus_105.1
Amphioxus_39.1
SATNKKSTYKGLRTVILHGIQLILGMMQFITPYTEMSLWK-IDV--LFLNVRYSNFILFWILPRSLSPLVYGLRDKKFYYALKYA
-GKCRK--SKEGRNKFIQTCPVPHLLALLNVSFALLFDVLYTRYGSMPQDLRNFMALEFLLVPPMLNPLIYGLNLTCLRKEVLR
-LVAVLHISSTQGRLKSFSTCSPQLIIIALYFLPRCFIYLSS-NIGIFSTDLRLVIIMMYSLFPPMINPLIYCLKTKDVKETLLKK
-RTCVK--SAKGRIKFTQTCVPHLITIFITVTLFDNLQG-WNNVSTLNMNRNAMAQFLVIPPVFNPLIYGLNLQQIRRAVFRK
-IVCLSSKNSSLNSKALTTCSTHLLVYLIVLGC6FTIIVLHRFP--AFADLRKYSSVLGSVVPTCLNPIIYGLQTKQIRIFRV
-RTCVK--SAKGRIKFTQTCVAHLITIFMFITVTLFDNLQG-WNNVITLNMNRNAMAQFLVIPPVFNPIYGLNLKQIRRAVFRK
-AECFISKNKAMNSKALKTCSTHLLTVYLIIMLISGSIIIIILHRFP--HYS DYRKVAALLFHIIIPGSLNPIIYTLRNPTRHVPVI-
-KISYRS-SKEVRSKAAQTCLPHMLVLVNFSCLSGFEIIGFFWSEYPKTLHLTVILQIIYQPLFNPIIYGLKMKKEISKHVKML
-KISYRS-SKEVRSKAAQTCLPHMLVLVNFSCLSGFDVIGFFGSGYPKTLHLTVMLQIIYQPLFNPIIYGLKMKKEISKHVKML
-VVCLTSKNKSLNRKALKTCSTHLLFVYVMVMSIC6LLNIVLHRFP--EYSDQRKLIVILFHIIIPGSLNPIIYGLQSKQEVQRFRSA
-AVCLTSKSKSLNNKALKTCSTHLLVYVLIIMSISGVSIIIVLHRFP--QYSEYRKLSLILFVMLPPSLNPIIYGVQSRQIKFLSEK
-RVCMKA-SKAFRAKALQCTPHLVTLTYFVADVLF EILLPRFPSTLPYELRVLMSVQAFVIAPILHPIIYGLWKREIRLRLVLM
-RVCMKS-SKDVRKALQCTCPHIVSLLYFVVDILCEVLLRFPFNIPYELRIISVQAFVFAPLLNPLMYGLKLRKIRVKIGQI
YTAMKSATG-KSQHKALNTCGTHLLVAMVVYLGLASSIVYRMETTISPDKNLFSAIYLMVPATLNPFIYGLRVSEIRKSLMKP
YTAMKTATG-KSRHKALNTCGTHLLVAMVVYLCALASTIVQRMETSISTDIKNLFIALYLIIPALLNPFYGLRVSEIRKSLLS
DSGKES-AIKASRTVMLHAIQLFLCLMAFSN---NLEIYLM---YMYLLPLGSFFLFMCPLRFISPLIYGIRDEVFRNYIKRM
GSGTSS-AIKAGKTVLLHGVQLLLSLMSLIT---SYIEANVKE--YVLLAISNLFMCLPRFLGPIIYGLRDEVFGKHLR--
-RVIHS-TNTENSWKAFYTCSTHLMVIGLYFIPRVFVYSTS-QIPLLDADINVLCLLYTFIPHLANPVIYCLRTKDIRNIFAQS
-RAVFRMKSSQSRFKALATCEHLLVLCYFVPIVIFNLTF-FFGIWSPNVGLVCLSLSSLLPPCVNPIYSLKTKKIRSRVYSL
-VTLFRVTTQDQRATCTCAHLLVAVFYLPITTIYS---LASINTNTRIINLSLTSALPPMLNPIIYTFKTEEFMVSVKKL
-IAVMRIASVTQRWKAFHTCLTHMMLVMLYYMPVIAAYVLG-NLRLQNVDLLTAILTYSVTVPAMLNPIIYSLKTKDELKERMVKL
-VTVFRMKTSDNRRKTLATCAEHIIILVAIFYIPFFVIYTMG-FYLGVPNDLRVLSLSMASCLPPCINPVVYSLKTKELKTRALAL
-FALFKVSTIQEGVKAFKTCTAHLVSLVAIFYFPILITFT---NTNIHPNHRINLSLTAVFPPMLNPIIYVLQTKQIKASFKKV
-YTLVKVATLQQGIKAFKTCLAHLVSLVVFYFPVILITFT---LMDIHPNHRINLSLTSVFPPMLNPIIYVLQTKQIKSLKKI
-ATVFRMKSVSNRMKALATCEHLLVVAIFYIPIFTIFLMG-LYVRIDPDQRVLSLSLATCIPP C INPIVYSLKTKREIKTRALAL
-VTVFRMKS LDSRVKALATCEHVLVAVFYVPIITIFTLG-FFLRTDPDQRVLSLSLASCIPP C INPIVYSLKTKKIKMRAVAL
-CTLAKVATVQEGKAFRTCTAHLVSLVAIFYIPVILITFT---LMEINPNARIMNLSLTSILPPTLNPIIYVLQTKQIKKSVKKL
-CTLAKVATVQGLKAFRTCI G HLLVVAIFYIPLITFTFT---LMEIHPNARIINLSLTSVFPPMLNPIIYVLQTKREIKDSLKR
-VTLFLMKSVNSRMKALGTCVEHLVVAIFYIPLFTIFILG-FYVRIDADQRVLSLSLASCIPP C VNPVYSLKTKREIKIRAV
-CTLAKVANFQRLKALKTCG HLLVVAIFYIPLITFTFT---LMEIHPNARIINLSLTSVFPPMLNPIIYVLQTKQIKDSLRL
-LTLFRMKSVNSRMKALSTCVEHLVVAIFYIPLFTIFIFG-FYVRIDADLRVLSLSMASCIPP C INPIVYSLKTKKIKIRAV
-ASVMRLSSSQSRWKS FATCSTQLCIITLFYMPRFTVYLT-FLQIISKDFRILLVLIYCLVPPLVNPFIYCLRTQEI RMIVSRW
-VSVLQIANAKGRLKALSTCATQLTIISIIYVPRFAVYITSNVPNAMDKAEKIALVMFYSLPPLMNPFIYFIRIREIRQVFLKC
-ISVSKISKSEGRYKTFSTCTPQLLIIICLYYLPRTFVYITN-ISGYLSNDTRMVVSMMSYLIPAVINPFIYCFRTKEIKEAIFKR
-ISVFRISDTQARFKTFSTCTPQLLIIICLYYVPRCVVYVHD-VT-IIISP6IRVMLIMMYTLIPPVNPFIYCFRTKEIKDAIKKK
-VAVLKMTKAE G YHKVLSTCAPQILTTCLYYVPRCVVYITD-NLKVVSPDARIIIALLYSLIPAANPLIYCLKTDI KEALMKR
-VVILKMSSSSGRKKTISTCTPQIFITCLFYLP RCFVYVAS-TVGFFSLDIRILLILLYSLPPALNPLIYCFKTRDIKLTLLRK
-ADILKMSNATGRMRTISTCTPQILITCLFYLP RCFVYVSN-TVGYFSLDVRILVLLYSLPPAAVNPFIYCFKTQYIKQH LIKK
-VVIAKMSSTAGRRKTLSTCTPQLFVTCLFYLP RCFVYVAN-TVGFFSIDVRILLTLLYSLVPPAVNPFIYCFKTQDIKKILMKK
-VVIMRRSNGAGRRKTLSTCTPQLFITCLFYLP RCFVYVAN-TVGFFSVDVRILLVLLYSLVPPAVNPFIYCFKTQDIKQTLIKK
-KAICSRDHFENWRKTFYTCATHLLVIGLYFIPRIFFYISN-QVQLLEEDLNVLCLLYTFVPHMANPIIYCLRTKEIRKTIARF
QERDEQRPVKFYKTRGFKTMAPLAILLTTTIVSTLFMTVTVAQGNAAVVILEKASILLNLTLSSMLNPIIYSLRLPEFRRAMREV
-ERDEHRNLWLYQTKAFKTLVPHIIVLVVSVASYVFLVASGRALLNSLLITVIVANRIFLTLSSMVNPVYVSRHP EFRQALGEV