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                                     : * : * . * : . * :
x1a1 -----MRLLCLEYSVYRVFALLFLGRVQLIEAEKLLAIPLDGGSHWLSMRILVBSLQQRGNQVVVLAPHSNIIHHP--E 73
x1a3 -----MELLASSNAAV--LLFCLGALSVEGGKLLVVPMDGSHWLSMSSVVERLAQNGHEIIVVKPESIVKFD--N 70
x1a4 -----MELLASSNAAV--LLFCLGALSVEGGKLLVVPMDGSHWLSMSSVVERLAQNGHEIIVVKPESIVKFD--N 70
x1a5 -----MGATGSSPSCCFR-RFFILLALGCADGGRLLVVPDGGSHWLSMRVLVDRLAQNGHEIIVVAIPVNMFFNDL--D 72
x1a6 -----MGATGSSPSCCFR-RFFILLALGCADGGRLLVVPDGGSHWLSMRVLVDRLAQNGHEIIVVAIPVNMFFNDL--D 72
x1a2 -----MPLFLLLVGF--VVCLLELPGLSEGGKLVLPDNTNVWLDMHSVMNKLKKNGHEIIVVVIKNNDI--E 70
11a1 -----MLQSVQCIPSWILLFFSWSLSDGGKLVIPADGGSHWLSLKPVMENLQQRGHELVVVAPEANLWIKAS--E 69
11a2 -----MA-CLKRSRSHAVGITCLLSFCHLAESGGKLLVVPDGGSHWLSMKMALEELAQRGHEVVVLMPENTFLMQTS--E 71
zfla1 -----MVF-PKPGFLFLASWAVFFLLLTSGEGKLLVVPDGGSHWLSMHPVVEKLRDKGHEIIVVVAPEINLRIHS--P 72
zfla2 -----MTV-MWRHHVHAG--LVFFLAFWSLAHGGKLLVVPDGGSHWLSMRVLEKLEWEKGHEIVAVVPAALLLKS--Q 70
11a3 -----MAL-PLP-LCSLVLWAFSLLISSPADAGKLLVLPMDGSHWLSMSKVLKLSLKGHEIIVVLPVETSLLKLD--L 70
11a4 -----MAPVVFYSNVILLLLASLNLAGGKLLVVPMDGSHWLSMKPVKQLRQNGHEMVIAPVSIHIKPE--D 68
11a5 -----MAPVVFYSNVILLLLASLNLAGGKLLVVPMDGSHWLSMKPMLKQLRQNGHEMVIAPVNMHIKPE--D 68
zfla3 -----MAL-ELRASPPVV--LLLLSLLGLAAGKLLVVPDGGSHWLSMQLLVLLQKGEVVVVAPEVSLHIKPS--K 69
zfla7 -----MAL-GLRASPPVG--LLLLSLLGLAAGKLLVLPADGGSHWLSMRELLDLLQKGEVVVVAPEVTLHIKPS--K 69
zfla8 -----MAL-GLRASPPVV--LLLLSLLGLAAGKLLVVPDGGSHWLSMREVVDLLRQNGHEVVVVAPEVTLHIKPS--K 69
h1a1 -----MAVESQGRP-LVGLLCLVLPVSHAGKLLVVPDGGSHWLSMLGATQQLQQRGHEIIVVLPADASLYIRD--A 72
h1a3 -----MATGLQVPLPWLATGLLLLSVQPAESGKVLVVPDGGSHWLSMREVLRELHARGHQAVALTPVNMHIKPE--N 73
h1a4 -----MARGLQVPLPQLATGLLLLSVQPAESGKVLVVPDGGSHWLSMREALRELHARGHQAVALTPVNMHIKPE--N 73
h1a5 -----MATGLQVPLPQLATGLLLLSVQPAESGKVLVVPDGGSHWLSMREALRDHARGHQAVALTPVNMHIKPE--N 73
zfla10 -----MAL-FYQAWILL--LLTSL-ILAEGGKLLVVPDGGSHWLSMRPVVEKLLQKGEVVVVPSTSLYMKSKPQ 70
h1a6 -----MAC-LLRSFQRISAGVFFLALWG-MVVDKLLVVPDGGSHWLSMKDIVEVLSDRGHEIIVVVPVPEVSLYMKSKPQ 71
11a6 -----MDH-HFTCPRGFPICFLFLFAIICFEGKRLVVPDGGSHWLSMRAVLEKLERGHEVVVLPVPEVNLLIKES--K 72
11a7 -----MAF-ACHRPTSNPVFLALALAFASVDEKLLVVPDGGSHWLSMRAVVEKLEKGEIIVVVPVPEVNLLIKES--R 72
zfla11 -----MAL-RLCCAWISI--LLLLP--SLSDGGKLLVVPDGGSHWLSMGEVVEKLSERGHEVVVLPVPSWQMETI--Q 67
h1a9 -----MAC-TGWTSF-LPLCVCLLTCG-FAEAGKLLVVPDGGSHWFTMRSVVEKLLRGEHEVVVMPVPSWQLGRS--L 70
h1a7 -----MAR-AGWTGL-LPLVCLLTCG-FAKAGKLLVVPDGGSHWFTMQSVVEKLLRGEHEVVVMPVPSWQLGRS--L 70
h1a10 -----MAR-AGWTSP-VPLCVCLLTCG-FAEAGKLLVVPDGGSHWFTMQSVVEKLLRGEHEVVVMPVPSWQLGRS--L 70
h1a8 -----MAR-TGWTSF-IPLCVSLLTTCG-FAEAGKLLVVPDGGSHWFTMQSVVEKLLRGEHEVVVMPVPSWQLGRS--L 70
z1a1 -----MRTLVPVPAQGLLTLCLFSFESVQA--GKVLVLPDGGSHWLSMKILVEELSRRGHEMVLVPEVTSILIKKS--G 70
z1a3 -----MKRTLFPVPAFLGFLFCLFSESVA--GKVLVMPDGGSHWLSMKILVEEMSRRGHEMVLVPEVTSILIKKS--G 71
z1b1 -----MLKKGWLWGLGSGLLLLWLAGLRPVQG--GRVLVMPVGGSHWLSMKVLATELARRGDVVLVPEKNLIIQS--E 73
mla1 -----MGVRGWFFTAGLLAWLCCSLGPPVQG--GKVLVMPDGGSHWLSMKILVKELSRRGHEVTVLVPESLLIKKS--K 71
sla1 -----MSGEVWFPAALGLVWLCCSLGPAQG--GKVLVVPDGGSHWLSMKILVKELSRRGHEAVVLPVETSLLIHGS--K 71
fla1 -----MRGSGWFFTLGLLAWFCCFPVPEA--GKVLVLPDGGSHWLSMKILVKELVQRGHDVVLVPEVTSLLIKS--E 71
t1a1 -----MRGSGVILILGLLAWISCFGRPVQA--GKVLVLPDGGSPWLSMKILMKKLIQRGHDVVLVPEVTSLLIKS--E 71
z1a2 -----MACLWLLGSLLLGSAEA--GKLLVVPDGGSHWLGKPIVEELGRRGNQVVVVIPEASLSMGP--E 63
z1a4 -----MACSWLLVGLFLGSAEA--GKLLVIPSDDGGSHWLGMPVVEELGRRGNQVVVVIPEASLSMGP--E 63
z1a5 -----MASVLLFCLFLASAKA--GKILVVPDGGSHWTKIKPLVEELGRRGNQVVVVIPEASLSMGP--Q 62
z1a6 -----MAAFVLLLYLFLCLATAEA--GKILVVPDGGSHWTKMKPLVEELGRRGNQVVVVIPEASLSMGP--Q 63
z1a7 -----MNDRIVRMAASALVLCFLCLVSAEA--GNLLVVPALGSHWTKTRPLVEELGRRGNRQVVVVIPEENVMVPA--K 70
z1b2 -----MRLGVIFILVVGVCSSAAVDQKPSRKS-SWTGKLLVVPDGGSHWTKVKAABEEMGRRGHTVIVVVIPEISVLLGPG--Q 75
z1b3 -----MHLGVIFCLVVGVCSSAAVDQKLSRKS-SWTGKLLVVPDGGSHWTKVKAABEEMGRRGHTVIVVVIPEISMRLLGPG--K 75
z1b4 -----MHLGVIIICLVVGVCSSAVDQKLSRNS-SWTGKLLVVPDGGSHWTKVKAABEEMGRRGHTVIVVVIPEISMRLLGPG--K 75
z1b5 -----MH-GVIFNLVVGVCSSAAMNQKPSRNS-SWTGKLLVVPDGGSHWTKVKAABEEMGRRGHTVIVVVIPEISMRLLGPG--K 74
z1b7 -----MGLVAFIWCIVLTFASAGEAVK-SKEASWTGSLVVPDGGSHWTKVKAABEEMGRRGHTVIVVVIPEVSVLLGPG--K 74
flb1 -----MRSAAALLVIMLLSMOVKGAVDKTAGPVGGGNQRPEEIKGTINTAND-SDPFLGNLLVVPMDGSHWVDLKALAEEMGRRGHRVTVVIPEVSMRMPG--K 97
flb2 -----MRSAAALLVIMLLSMOVKGAVDKTAGPVGGGNQRPEEIKGTINTAND-SDPFLGNLLVVPMDGSHWVDLKALAEEMGRRGHRVTVVIPEVSMRMPG--K 97
t1b1 -----MRSATLFTVLLLSLOVKGGRV-TENSAGKGNQRPEE--ETPAND-SDAPFLGNLLVVPMDGSHWVDLKALAEELGRRGHRVTVVIPEFSIRMGP--K 93
s1b1 -----MQVNGAAGEAGGSVAGGPPETKKAABEAANTIPASDT-APAGFLGNLLVVPMDGSHWVGKAIABEEMGRRGHTVIVVVIPEISVRMGP--K 91
mlb1 -----MKLLFVLLLSMSVG--VRGAASVAD--DPRPEKTEKTKVSAEFGSSAAFSGKLLVVPMDGSHWVGKAIABEEMGRRGHRVTVVIPEVSMRMPG--K 92
mlb2 -----MRLLFVLLLSMSVG--VRGVASVAD--EPRPKTEKTKVSAEA--SAAFSGKLLVVPMDGSHWVGKAIABEELGRRGHRVTVVIPEVSMRMPG--K 90

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x1a1  NYILRTYVPVPSKELKLEQMVKSANDVFTK--RPLLDKITNMYQRITNVTGIVFSAQHLLHKSKEIMQELQESAFDAALIDPFFPCGMIVAEVHLHLPVSV 171
x1a3  LYTLRNFSIPYSNQDIHERLQQLVGSQFTA--SSLIEMVLNSYNSIMGVQHMINSMCESLLHNKQFIRNLQEKFDVAVLNDPMFPCGVILAEHLGIPSVH 168
x1a4  LYTLRNFSIPYSNQDIHEHLQQFVGSQFSG--SSLIEVVLTAARNLMDVQHMINMCKSLLNQKLIQNLQEKFDVAVLNDPMFPCGVILAEHLGIPSVH 168
x1a5  NYKVKTFSPYSKDVLESRVRHMNLEIFAD--RILDKIKFLYESVSNGTMSVVSACQHFLONSTLIRELEKEHFDAMLTDSVFPCCGEIVAEHLSIPSVS 170
x1a6  NYKVKTFSPYSKDVLESRVRHMNLEIFAD--RILDKIKFLYESVSNGTMSVVSACQHFLONSTLIRELEKEHFDAMLTDSVFPCCGEIVAEHLSIPSVS 170
x1a2  DFIVKTYTVPALDSGFIQYLEPTEP-LFQM--SSFLEAISTEYRRWKYITSVLCNTCQHLLDDLELIRYLERSLFDAAIMDPWFPCGPIVAEHLSLKSIY 167
11a1  AYTMTKTFVAVSHTEYLKAEFQKLGRIFAH--QFPLTKMTESFAKVRNITLTFDNCQQLLYNKELITYLEENQFDVVLMDPVSPPCGQILAEHLSIPSVY 167
11a2  HFTVTRHSPVYQEBLDAHYRSLGTAIFDD--SPFLEKIFLMYINTRITAFYASACRDLLYDKELITFLQSKFDAMFSDPILPCGPIVAEHLSPVY 169
zfla1  IYTLKTYPVSYTKEFVBAEFKEMGHRSFAP--HPFLEKLS---KIANFTSMFLDSCRLLSDKELIQYLEGSKFDAIFMDPFFPCGQIVAEHLSIPSVY 166
zfla2  SFTIKTYLVPYTOEYVDQYVQKLGNSFET--LTLFLLS---NITELTNMFTSACRHLSDKELMKYLQDSKFDAIMMDPVLPCGPIVAEHLSPVY 164
11a3  SYTTKIYVPHPTQKELHEVYQKFGHSLFSD--EFVVKRVIQIKNLRFINMMYSCHSLHNEEDLMNVVNVSRFDVAVLTAATVPCGSIVSDFQIPVNV 168
11a4  FYTLKTYVPVPTSEEMNENIQSFDHVFED--VPFLVMIATKFLMKKSSAMFLGSCSTHLLYNEELKMYFRNKFDVAVSDPFPWPCGQIVAEVLEIPSVF 166
11a5  LYSKTYVPVPTYEEMDENIQGISEQAFDD--VPFLMIANTIEHMKKTSVFLGSCSTHLLYNEELKMYFRNKFDVAVSDPFPWPCGQIVAEVDFIPSVF 166
zfla3  TIVMKTYPVPTQEBMDKVFKGSVMDLFGK--GFLEERVIRQYQAKKTSALFLATCTHLLYNEELKMYFRNKFDVAVSDPFPWPCGQIVAEVLEIPSVY 167
zfla7  NFVMMKYSVPPTQEBLEKAFQAFHFGSFEE--GWFFKRFKVVYRGMKTLTDCWVTSCEQLLQSKELIRYLEESKFDAILTDPVATCGLILAEHLSLPSMY 167
zfla8  NFVMMKYSVPYTKEDLKEFAFFHFSFEQ--GFPLERLRKAYQGIKRTDFGVTSCEQLLQSKELIRYLEESKFDAILTDPVATCGLILAEHLSLPSMY 167
h1a1  FYTLKTYVPVPTQEBMDKVFKGSVMDLFGK--GFLEERVIRQYQAKKTSALFLATCTHLLYNEELKMYFRNKFDVAVSDPFPWPCGQIVAEVLEIPSVY 170
h1a3  FFTLLTYAISWQDEFDRHVLGHTQLYFET--EHFLKFFRSMAMLNMSLVLRHRCVVELLHNEALIRHLNATSFVAVLTDVNLCAAVLAKYLSIPTVF 171
h1a4  FFTLLTYAVPWTQKFEFDRVLTGYTQGFET--EHLKRYRSMAIMNNSVALHRCVVELLHNEALIRHLNATSFVAVLTDVNLCAAVLAKYLSIPTVF 171
h1a5  FFTLLTYAISWQDEFDRHVLGHTQLYFET--EHLKRYRSMAIMNNSVALHRCVVELLHNEALIRHLNATSFVAVLTDVNLCAAVLAKYLSIPTVF 171
zfla10  NYTKVYVPVPTDEYLGELIKALVNAHFME--QSVLNVVLTLYQVMIEIYPSVFTNCKSLQNEELMQLHKEKSKFDVAVLTDVNLCAAVLAKYLSIPTVF 168
h1a6  YYTRKIYVVPYDQEBLKNRYQSGNHFAB--RSFLTAPOQTEYRNMMIVIGLYFINCQSLQDRDTLNFKESKFDALFTDPALPCGPIVAEHLGIPSVY 169
11a6  YYTMKKYAVPYMDDLLQRFLLGNSPFEE--VSFPAMVIGAYRTLMQILIELNSVSCDNLKKNREVMRYLAENRFDALFTDPAVPCGVILAEVLSVPSLY 170
11a7  HYMLKTYSPVPEQKDLDAQFKKFSFMLFRK--VSFPYSILQEYRNMMYINLFFDNCNSLLKDRVIFLEQGHFDALFTDPALPCGPIVAEHLGIPSVY 170
zfla11  AYKVVTYVPVPTLGELENAFQEVAVHLMQ--KPFPLNALAMYKASVHVFSYFFGQCKDLFHSQETLRFNLQSSFDAILTDPAFMCGAILAEHLSLPSVF 165
h1a9  NCTVKTYSISYLEDLDRFKAFAHAQKAVRSIYSLLMGSSYND---IFDLFFSNCRSLFKDKLVEYLKESSEFDVAVLTDVNLCAAVLAKYLSIPTVF 167
h1a7  NCTVKTYSISYLEDLDRFKAFAHAQKAVRSIYSLLMGSSYND---IFDLFFSNCRSLFKDKLVEYLKESSEFDVAVLTDVNLCAAVLAKYLSIPTVF 167
h1a10  NCTVKTYSISYLEDQNRFMVFAHQKAAQSIYSLLMGSSYND---IFDLFFSNCRSLFKDKLVEYLKESSEFDVAVLTDVNLCAAVLAKYLSIPTVF 167
h1a8  NCTVKTYSISYLEDLDRFKAFAHAQKAVRSIYSLLMGSSYND---IFDLFFSNCRSLFKDKLVEYLKESSEFDVAVLTDVNLCAAVLAKYLSIPTVF 167
z1a1  KYSTKTYVPSFTHDDLAENLKIQNSALEK--APKLTDIVVNRNLQFLTMQSKTCEGLLYNEPLMKSLREMGFDAMLTDPFLPCGPIVAEHLGIPSVY 168
z1a3  NFTTKSFRVPSFDELNAHVHDIRKTAIEK--APRFIDIVGALGNLIQFINMVKACEGLLYDEPLMKSLRDMKFDALLTDPFLPCGSVIADYFSPAVY 169
z1b1  LFRTEFPVKISKEQLSKSLKGFQGGVFRS--PALMD-VFVQLERLLNFTGQVEGCESSLYNEPLMKSLRDMKFDALLTDPFLPCGSVIADYFSPAVY 171
m1a1  DYKTEVHKVPVPTQEBLNGKFDKLRRESVFK--TPEFTDMFVNQRLVEFTTLQVKGCESLLDSEDLMERLRGEGFDAMLTDPFLPCGSILAKMFSIPAVY 169
sl1a1  SYRTEMYQVPTKAELEDAFNQKDGVLK--PPTITDLFINIQRLVNFYSMQVGCESLLYNEPLMKSLRDMKFDALLTDPFLPCGSILSHVFSIPAVY 169
fl1a1  NYRTEIYQVPSKEDLDGNFNEKDGFLDK--PPTIMADIFINVERLVFTTMQVSGCESLLRNQPLMTRLRQEGFEVVLTEPFLPCGSILSHLNFVPAVY 169
tl1a1  NYRTEIYQVPSKEDLDENFKLLKDGVLK--PPSMADVFNVERLMNYTMMQVSGCESLLRNQPLMTRLRQEGFEVVLTEPFLPCGSILSHLNFVPAVY 169
z1a2  KTTLLTYPVNYTKVLEAVLASELNALLSIDISTDLAKFQSFNINMNSLNIIRSABEGFLSNKDLIKLQDYNFVILTDPFETVGVIAAEVLSVPAIY 163
z1a4  KTTLLTYPVNYTKAELHMLVLEGNLTELSTDFSTELSKFFVFLQKLVQNFIVRNAEGLLFNEDLMKKLQDCKFDAILTDPFEPVGVIAEYLSVPAIY 163
z1a5  HTTLLTYPVNYTKAQIQDHSASVTNLIETHVSTDLARFQSFINAMDLLNLIICNVEGLLNKDLKMLKQDYNFVILTDPFELVGVIAAEVLSVPAIY 162
z1a6  HTTLLTYPVNYTKAQIKIYKAGVTTLSTYVSTDLARFQSFINAMDLLNLIIRSABEGFLSNKDLIKLQDYNFVILTDPFETVGVIAAEVLSVPAIY 163
z1a7  HTTLLTYPVNYTKAQIQKDAAIKSLFSADVSSDGRFQNFNFTMDMLKVIISRNAEGLLLNKDLKMLKQDYNFVILTDPFETVGVIAEYLSVPAIY 170
z1b2  HYITKMFVSKYDQKSLNKLNVLEVNTPG--NSFLSTVIRIVSNLRRMFNMAATSESLFQDKELIESLRNENFDVAVLTDVNLCAAVLAKYLSIPTVF 174
z1b3  HYITKMFVSKYDQKSLNKLNVLEVNTPG--NSFLSTVIRIVSNLRRMFNMAATSESLFQDKELIESLRNENFDVAVLTDVNLCAAVLAKYLSIPTVF 174
z1b4  HYITKMFVSKYDQKSLNKLNVLEVNTPG--NSFLSTVIRIVSNLRRMFNMAATSESLFQDKELIESLRNENFDVAVLTDVNLCAAVLAKYLSIPTVF 174
z1b5  HYITKMFVSKYDQKSLNKLNVLEVNTPG--NSFLSTVIRIVSNLRRMFNMAATSESLFQDKELIESLRNENFDVAVLTDVNLCAAVLAKYLSIPTVF 173
z1b7  HYVTRTFPVLYGKQDLDELQARNAQVMESKQ--LPLMEKISTRFNSMRKFNVLQRATAESLLNQLBELVDFLRKQNFDAVLTSPAVPTGAILAYNLSVPAVY 173
flb1  YYDTVTFPVYDKDLVA-SLMGDNKGILEKSVGFEKIQRNISQFQTFASFLHTTAESLLFNASISQLEQNFDAVLTDPMPVPTGAILARKLGLPIVN 196
flb2  YYDTVTFPVYDKAVID-SIMVANKDVIKKSVSFMKIQKQFTQFKIKGLHSTAESLLFNASISQLEQNFDAVLTDPMPVPTGAILARKLGLPIVN 196
tlb1  YYDTVTFPVYQADID-SIIAANKDVLEKLSLFDKISKRFNQFRKIASFLHSTAESLLFNASISQLEQNFDAVLTDPMPVPTGAILARKLGLPIVN 192
slb1  HYETVTFPVYDKAHL--FVMAVHKDVLKRSQSFQIKAKYISQIMRITGFIHTTAESLLFNDSLSHLAGQNFDAVLTDPMPVPTGAILARKLGLPIVN 190
mlb1  HYDTLTHPVYQADID-VMVSMHGSVMR-SDFPMERMKTKFHHIKRVIDFHVHTAESLLFNDSFISYLEQEFDAVLTDPVIPSGLIARKLGLPIVN 190
mlb2  HYDTLTHPVYQGSVEVD-AILSLQKDFLE-TAQPFMERIETKYHNFVRMNFHVHTAESLLFNDSFISYLEQEFDAVLTDPMPVPTGAILARKLGLPIVN 188

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x1a1 LLYGLPCGIDRLATOCPSPLSYVPRHFTGNTDHSFQRLKNALLVPVDIFLCNLLYSYQAQLASEFLHREMTILQLYSQTSVWLMKTDVFDYPRPLMP 271
x1a3 FLRGLPCMYDYISAACDSPLSYVPRHFTQNSDKMNFQRVGNLTLRLSLAEPILCGAAFRGWHEHLASEFLQREVTAIQLLSRTSVWLMRVDFVFDHPRPVM 268
x1a4 FLREVPQCMYDYISAACDSPLSYVPRHFTQNSDKMNFQRVGNLTLRLSLAEPILCGAAFRGWHEHLASEFLQREVTAIQLLSRTSVWLMRVDFVFDYPRPVM 268
x1a5 FTRGAAFMGDQIGSOTPSPPSYVPRMFTVYTDNMSFSORVKNFLIHSLEHIVCHIFYPYAQMADFLKKEVTAMSLFSRTSIWLMRYDFVFEFPRPIMP 270
x1a6 FMRGTFIFMGDQIASOTPSPPSYVPRMFTVYTDNMSFSORVKNFLIHSLEHIVCHIFYPYAQMADFLKKEVTAMSLFSRTSIWLMRYDFVFEFPRPIMP 270
x1a2 VMPGFSCGWYTTATQCP-----KSPYQHYGQMDFTORMKSLLAESLEYIACQEIKAETRLASQFLHKKHINILQVFSQAELWLFYDFVVEAKPVMP 260
11a1 YLRGIPCGLDFEASQCPNPHSYVPRFFTRNTDRMVFNQRVKNFLVGSLEFIIICYLLYSPYEVLSKFLORDMITELYSQASIWLLRYDFVFEYPRPVM 267
11a2 FLRGLPCGLDYKAAQCPVPLSYVWGFTRFSDHMSFIERVKNLITSPLOYQLLQRLFFANHEELASEFLQRTTISELFSKTSIWLMRYDFVFEYPRPVM 269
zfla1 FLRGLPCSLFQAMMCPSPPSYVPRFFTRSDRMSFQWRLGNFLATMGSSSLACSVLYSPYDPLIQEFLOREAVPELFSHAAVWLMKYDFVFEYPRPVM 266
zfla2 FMRGLPCTLDYKAAQSPSPSYVPRVFTLSLSDHMTFPERVKNFLIGLEPPLLCHFLVLYKESLASEFLQRDVITQELFSQASVWLMRYDFVFEYPRPIMP 264
11a3 FLRGIACNLLDKAAQCPSPSYVPRMFTVYTDNMTFLQRVANMLIRSMDFLLCKVYVYQFDLASEFLHKKDVTLLDLFSKSPVWLLRYDFVFEYPRPVM 268
11a4 FLRGLPCGYEFEATOCPRPPSYVPRGFTRYSDHMTFQORVKNMLFHTEFFLCSVYTPYAKLASEFLQREMTFVFLVSNQSVWLLIREDLAFYTPKPLMP 266
11a5 FLRGLPCGYEFEATOCPRPPSYVPRALTRYSDHMTFQORVKNMLFHLTEFFLCSVYTPYAKLASEFLQREMTFVFLVSNQSVWLLIREDLAFYTPKPLMP 266
zfla3 FLQQIPCGLEYQATQCPNPPSYVPRVFTLTDHMTFQORVKNMLYDIPNFFLQDVVYQPYAELASEFFKQEVVTPDLLRQASVWLMKDFVLFHFPPKPLMP 267
zfla7 FLRGLVPCGLDLDRLCPSPPSYVPRVFTLTDHMTFQORVKNMLFEIPNVFLCDFAFQPYSKLASEFLQREVTVQDLLRKSQVWLLRLDFVLDYPRPVM 267
zfla8 FLRGLHCGLDFEATOCPRPPSYVPRGFTRYSDHMTFQORVKNMLYDIPNFFLQDVVYQPYAELASEFFKQEVVTPDLLRQASVWLLRLDFVLDYPRPVM 267
h1a1 FLHALPCSLFQAMMCPSPPSYVPRPLFSHSDHMTFQORVKNMLIAFQNFCLQDVVYQPYATLASEFLQREVTVQDLLSASVWLMRSDYFKDYPKPLMP 270
h1a3 FLRNLPCDLDFKGTQCPNPPSYVPRLLTNSDHMTFQORVKNMLYPLALSIIYCHAFAPYASLASEFLQREVTVQDLLSASVWLMRSDYFKDYPKPLMP 271
h1a4 FWRYPICDLDFKGTQCPNPPSYVPRLLTNSDHMTFQORVKNMLYPLALSIIYCHAFAPYASLASEFLQREVTVQDLLSASVWLMRSDYFKDYPKPLMP 271
h1a5 FLRNLPCDLDFKGTQCPNPPSYVPRLLTNSDHMTFQORVKNMLYPLALSIIYCHAFAPYASLASEFLQREVTVQDLLSASVWLMRSDYFKDYPKPLMP 271
zfla10 FLRGLPCGMDSAATQCPSPSYVPRLLFDLNTDSMMFSORVKNMLVNLLELFYCKPIYDNFEEELAYKVKKKVATATELLSRGSAVWLMRYDFVFEFPRPVM 268
h1a6 LFRGFPCSLHETFSRSDPVSYPICYKFSRDMTFSORVANFLVNLLEPFLYCYLFSKYEEELASEAVLKRDDVITITLYQKVSVWLLRYDFVLEYPKPLMP 269
11a6 FFRGFPCNLELAVSKCPDPVSYPICYKFSRDMTFSORVANFLVNLLEPFLYCYLFSKYEEELASEAVLKRDDVITITLYQKVSVWLLRYDFVLEYPKPLMP 270
11a7 FFRGFPCSLHETFSRSDPVSYPICYKFSRDMTFSORVANFLVNLLEPFLYCYLFSKYEEELASEAVLKRDDVITITLYQKVSVWLLRYDFVLEYPKPLMP 270
zfla11 FMRGFPCNLDHFAAOCPSPPSYVPRLLFSDHMTFQORVENALILLLELEYCNSFYAEALKSSSEVLQDVSMLDLVNSAAVWLLRDFVFEYPRPVM 265
h1a9 FARGILCHYLEEGAOCAPLSYVPRILLGFSAMTFKERVNHHIMHLEHLLCFYFKNLEIASEILQTPVTAYDLYSHTSIWLLRDFVLDYPRPVM 267
h1a7 FARGIFCHYLEEGAOCAPLSYVPRILLGFSAMTFKERVNHHIMHLEHLLCFYFKNLEIASEILQTPVTAYDLYSHTSIWLLRDFVLDYPRPVM 267
h1a10 FTRGIFCHYLEEGAOCAPLSYVPRNDLLGFSAMTFKERVNHHIMHLEHLLCFYFKNLEIASEILQTPVTAYDLYSHTSIWLLRDFVLDYPRPVM 267
h1a8 FARGIACHYLEEGAOCAPLSYVPRILLGFSAMTFKERVNHHIMHLEHLLCFYFKNLEIASEILQTPVTAYDLYSHTSIWLLRDFVLDYPRPVM 267
z1a1 FLRLIPCRLEDEAAAQCPSPSYVPRVFTLTDHMTFQORVKNMLYPLALSIIYCHAFAPYASLASEAVLKRDDVITITLYQKVSVWLLRYDFVLEYPKPLMP 268
z1a3 FLRGLPCRLDEAAAQCPSPSYVPRVFTLTDHMTFQORVKNMLYPLALSIIYCHAFAPYASLASEAVLKRDDVITITLYQKVSVWLLRYDFVLEYPKPLMP 269
z1b1 FLRGMPCGIDLLASQCPSPSYVPRFHSQTSDKMNFVERIRNFMMSGFELVLCKVMYASFDLAEARYLKKDVTYKEIIRGALWLLRYDFVFEYPRPIMP 271
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s1a1 FLRGLPCGLDSTRANHCAPVSYVPRVFTLTDHMTFQORVKNMLYPLALSIIYCHAFAPYASLASEAVLKRDDVITITLYQKVSVWLLRYDFVLEYPKPLMP 269
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z1a4 MQVNLPCGVDLTLASQCPSPSYVPRVFTLTDHMTFQORVKNMLYPLALSIIYCHAFAPYASLASEAVLKRDDVITITLYQKVSVWLLRYDFVLEYPKPLMP 263
z1a5 IQTSHPCGADTLASQCPSPSYVPRVFTLTDHMTFQORVKNMLYPLALSIIYCHAFAPYASLASEAVLKRDDVITITLYQKVSVWLLRYDFVLEYPKPLMP 262
z1a6 IQTSHPCNVDTLASQCPSPSYVPRVFTLTDHMTFQORVKNMLYPLALSIIYCHAFAPYASLASEAVLKRDDVITITLYQKVSVWLLRYDFVLEYPKPLMP 263
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x1a6 APHLRPAADHLNWIQYQSLDVMAFLLAVLLTALFI SLKCCTFACRCCCKRNTKPKRRTKSE-- 531
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