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hBDP1_D1\NP_055184\PTPN18 : DSARFLEERLARGGRE---GAVLAGEFSDIQACSAANKADG---VCS2VAGSRPEVNRKRVKDVLDVDRVRLVLSLLEQEGH---SDYINGNITRVDG : 92
hCD45_D1\NP_002829\PTPRC : DIILRTYKRIKLADEGR---LFLAEFQSPRVFSKFP---LKEARKFPNKNRNVLDVLDVYKRVSEJINGDAG---SNYNASVDFEKE : 83
hCD45_D2\NP_002829\PTPRC : SEHPVYLNKRRDPDS---EPSLEAEFORPYSRNR---TQHIGQNEENSKNRSNVLPDYKRV-LKHELEMSKESEHSDSDSDSDSE-PSKYINASVMSYWK : 106
hHSTP1_D1\NP_002834\PTPRJ : ENFEAYFKQADSN---CGFAEYEDKLVIGISQ---PKYAALAEANRGNKRVNVLVDVIRVK-LSVQTHSTD---DYINANVDFYHS : 82
hGLEPPI1_D1\NP_109592\PTPRO : DDFDAYKDKAKSDS---YKFLDQFEELKILGIDLP---HFAADLPLNRCKNRVNLVDFSRVRLVMSQNEEG---ADYINANVDFYNS : 83
hHDDPT_D1\NP_056281\PTPN23 : ERIRQLQQLLFAFQQQLG-DVYGAOLTVREELQQAQEHADR---GRSIALARCYLNRKRCVMPVDSNKRVLRSRKG---DYINASVCEGLSP : 86
hHEPTP_D1\NP_002823\PTPN7 : HPTTRWALQRQPPSPK---QLEEFELKIPSNVSP---EDLDIPGHASKDRKTLVLPNPKRVCVLRGASQSD---GDYINANVDFYDGK : 82
hIA2_D1\NP_002837\PTPRN : HMLAYEDHLNRNRD---LAKEWALCAYQAEFN---TCATAQEGEIKKRNRPFLVDHARK-LKVESPSR---SDYINASVDFEHDPR : 84
hIA2beta_D1\NP_002838\PTPRN2 : HMLAYEDHLKNNKR---LKEWALCAYQAEFN---SSFAQREEVNPKNSLAVTVDHNRV-LKAEVSGH---SDYINASVDFEHDPR : 84
hLAR_D1\NP_002831\PTPRF : TTDADNERLWANDG---LKFQYSESDPQQQFT---WENSNLVEKPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYRK : 82
hLAR_D2\NP_002831\PTPRF : RNYAYQKIQVPPGE---SVTAMELEKLLASSKAHTS---RFSANLCPNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYRK : 88
hMEG1_D1\NP_002821\PTPN4 : HSRRESIQALAEGLTG---TVLTFDQYKPKGMT---MSCAKLPQNSKRNVEDISEVAVTLLKGN---DYINANVDFYRK : 80
hMEG2_D1\NP_002824\PTPN9 : WTLQELDYLNARQKQ---GIYEDERREMPVG---TFHCSMSPQLEKRYCEVPTLQTRKTKRSHTQ---TDYINASVDFYKQ : 83
hPCPTP1_D1\NP_002840\PTPRR : SRLTRSQRLDVIIVASS---HLQSEWELPMNVDP---KEIDIPRHGTRKNTLNPVLSRVLKPKNVDS---LSTYINANVDFYSGK : 84
hPEST_D1\NP_002826\PTPN12 : EILRFKQRYQAMKSPDHN-GEDNFARDNRRLSTKYRTEK---IYPTATGKEHVKVKNRKYDLPDHSRVL-LTLKTPSQD---SDYINANVDFYKQ : 95
hPTP1B_D1\NP_002818\PTPN1 : MEMEKPEQLDKSGS---WAAIQDRHEASDFP---CRVALPKPKNRYANVDFYDHSRVL-LHQED---NDYINASVDFYKQ : 77
hPTPalpha_D1\NP_002827\PTPRA : DKLEEEENRMADDNK---LFRFEENAPACPIQAT---CEAASKEENKKNRYANVLDHSHRVLVETISGVG---SDYINASVDFYKQ : 83
hPTPalphad2_D1\NP_002827\PTPRA : TSEETHQKLVNPKIPG-T-SNNGLEEFKTSIKIQND---KMRGTLPANMKKNRYANVLDHSHRVLVETISGVG---SDYINASVDFYKQ : 88
hPTPBAS_D1\NP_006255\PTPN13 : KSRIVRGLDQIGP---SKLENIQELKPLD---QMLGTLPANMKKNRYANVLDHSHRVLVETISGVG---SDYINASVDFYKQ : 77
hPTPbeta_D1\NP_002828\PTPRB : NQFGEFMKIQADSN---YLLSKYEELKIVGRNQ---SCDIALLENRGNRYANVLDHSHRVLVETISGVG---SDYINASVDFYKQ : 85
hPTPD1_D1\NP_008970\PTPN21 : ATNDRCKLEQLRQEG---MVTFYERLKKRLLD---ECSTARLPENAEARNVLDVYDARVETLPTKENNT---CYINASHIKVSVSG : 83
hPTPD2_D1\NP_005392\PTPN14 : VPDDEFRTKPKKLEEG---MVFTEYQPKPKKANG---IPFSTAALPENAEARNVLDVYDARVETLPTKENNT---CYINASHIKVSVSG : 84
hPTPdelta_D1\NP_002830\PTPRD : LMLADHERLKANN---LKFQYSESDPQQQFT---WENSNLVEKPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 82
hPTPdelta2_D1\NP_002830\PTPRD : RNYAYQKIQVETG-E-NVTGMELEFRKASSKAHTS---RFSANLCPNPKNRYANVLDHSHRVLVETISGVG---SDYINASVDFYKQ : 88
hPTPepsilon_D1\NP_006495\PTP : HLEESERIRRSADCK---QPREFNSLPSGIQ---TFELANKEENKKNRYANVLDHSHRVLVETISGVG---SDYINASVDFYKQ : 83
hPTPepsilon2_D1\NP_006495\PTP : SSEKHTQTHGTTTFD---KIGLEEFKIPNVRIMKN---MRTGNLPAKKNRYANVLDVDFNRYLSMKRGOEY---TDYINASVDFYKQ : 88
hPTPgamma_D1\NP_002832\PTPRG : NQFVHKGELVSNQHG---FSEDEEQRTADMN---ITASHNPKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 87
hPTPgamma2_D1\NP_002832\PTPRG : NQFVHKGELVSNQHG---FSEDEEQRTADMN---ITASHNPKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 87
hPTPH1_D1\NP_002820\PTPN3 : DTEGSMALQKGLSEG---TVLTFDQYKPKGMT---ITPAKLPKKNRYANVLDVDFNRYLSMKRGOEY---TDYINASVDFYKQ : 82
hPTPkappa_D1\NP_002835\PTPRK : ADLQHLNMLKTSDDSG---FKEEYEFVFGQAS---MDVAKQNRKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 82
hPTPkappa2_D1\NP_002835\PTPRK : KAAYPNIRIDQSTNS---HLKDEPQINSVTPRLQ---AEDCSACLPRNPKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 87
hPTPlambda_D1\NP_005695\PTPRU : ADLQHLNMLKTSDDSG---FKEEYEFVFGQAS---MDVAKQNRKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 82
hPTPmu_D1\NP_002836\PTPRM : ADLQHLNMLKTSDDSG---FKEEYEFVFGQAS---MDVAKQNRKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 82
hPTPmu2_D1\NP_002836\PTPRM : ADLQHLNMLKTSDDSG---FKEEYEFVFGQAS---MDVAKQNRKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 82
hPTPrho_D1\NP_573400\PTPR : ADLQHLNMLKTSDDSG---FKEEYEFVFGQAS---MDVAKQNRKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 86
hPTPrho2_D1\NP_573400\PTPR : ADLQHLNMLKTSDDSG---FKEEYEFVFGQAS---MDVAKQNRKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 86
hPTPS31_D1\NP_073855\PTPGC1 : KSFLOHLEKLTNN---LKFQYSESDPQQQFT---STDADLPPNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 84
rOSTPTP_D1\NP_149090\Esp : HFRQSYEAKSAHAQT---FFQFEELKIVGRNQ---RLEAHEPNIINRPHVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 83
hPTPsigma_D1\NP_002841\PTPRS : ADLQHLNMLKTSDDSG---FKEEYEFVFGQAS---MDVAKQNRKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 82
hPTPsigma2_D1\NP_002841\PTPRS : ADLQHLNMLKTSDDSG---FKEEYEFVFGQAS---MDVAKQNRKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 82
hPTT1p_D1\NP_050040\PTPN20 : TPKDCKIKLEKTAAY---DIMQEMALEKMLPG---EYFSQNPSPNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 80
hPTZeta_D1\NP_002842\PTPR21 : KHFPHKADHASSGFT-E-EFETLKEFQVQCSCTVDLGL---ITADSNLPPNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 92
hPTZeta2_D1\NP_002842\PTPR21 : SHHAYNALIPGPG---KTKLEQFQLSQSNIQSS---DYSAAKQCRNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 86
hSAP1_D1\NP_002833\PTPRH : EDFADWRKNERDSCG---FADEYQQLSLVGHQSQS---QMASASENNAKNRYANVLDHSHRVLVETISGVG---SDYINASVDFYKQ : 83
hSHP1_D1\NP_002822\PTPN6 : ADENRLELNKQESDIT-AKAGWFEEFESQKQEVKNLH---QRLEQPEKPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 95
hSHP2_D1\NP_002825\PTPN11 : AELESRRRESKLAETTK-QQQQFEEFETQQQCEKLLYS---RKEGQORPKNRYANVLDHSHRVLVETISGVG---VSDYINANVDFYKQ : 96
hTCTP_D1\NP_002819\PTPN2 : TTEREPEELDQTR---WQPLYLERNESHDPY---HRVAFPEKKNRYANVLDHSHRVLVETISGVG---DYINASVDFYKQ : 77
hLyPTP_D1\NP_057051\PTPN22 : MDQREIKQFLDEAGSKKI-TKEEFANFKLKRQSTKYKADK---TYPTVALEPKPKNRYANVLDHSHRVLVETISGVG---SSYINANVDFYKQ : 95
hPTPlambda2_D1\NP_005695\PTPRU : KATYKELRDPQSNSS---QLEEFELKIPNVRIMKN---VECSIALLENRGNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 86
hSTEP_D1\NP_116170\PTPN5 : SRLQAEELHEKALDP---FLLQAEFFELPMNVDPK---EYDIPGLVRKKNRYANVLDHSHRVLVETISGVG---LSSYINANVDFYKQ : 84
dmLAR_D2\g124585307 : RNLHTHQLLITPEGE---TISGMEVFKKSNVMDSS---KVTANLCPNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 88
dmLAR_D1\g124585307 : SEFANHERLKNNDNQ---KFSQYSESDPQQQFT---WENSNLVEKPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 82
cePTP3_D1\g125146575 : AEAANHERLKNNDNQ---KFSQYSESDPQQQFT---WENSNLVEKPKNRYANVLDHSHRVLVETISGVG---MDYINANVDFYKQ : 88
dmIA2_D1\g124580758 : HMLAYEDHLNRNRG---LQREWEALCRYEAPS---AREASAQQCAGLNPAPVLDHSHRVLVETISGVG---LDYINASTITDHDPR : 84
cePTP1_D1\g117554412 : DKLSKSLADSLNG---KVVDFEMLYKPKGMS---MNICRLTANLAKNRYANVLDHSHRVLVETISGVG---GDYINANVDFYKQ : 84
dmPTP99A_D1\g117136638 : NEFAKHVASHADGDG---FSREYEAQNECISDD---LPCEHQHPNPKNRYANVLDHSHRVLVETISGVG---LDYINANVDFYKQ : 87
cePTP3_D2\g125146575 : SRLQAEELHEKALDP---FLLQAEFFELPMNVDPK---EYDIPGLVRKKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 84
dmPTP61P_D1\g117136414 : AAARLQAEYKDKGDP---WHRFYKCECTCDREAKEK---QFSTSESERHTNRLNRYANVLDHSHRVLVETISGVG---VDYINANVDFYKQ : 85
dmCG32697_D1\g118958107 : KSFLOHLEKLTNN---LKFQYSESDPQQQFT---STDADLPPNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 84
dmPTP100_D1\g124641350 : KDFSHVYRISADSDPR---FSEYDMMRWGVGQS---VAASELIPNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 83
dmPTP4E_D1\g124639790 : EDFAHRLISADSDPR---FSEYDMMRWGVGQS---VAASELIPNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 83
cePTP10D_D1\g117534045 : ceIDA_D1\g125143920 : HYLQYSEYSEPTK---IEAQNNGKDYRNER---TKTKAEKFAQONRTLQPDNIDVIGKTAENE---DFYINASTITDHDPR : 80
dmPTP69D_D1\g124663403 : LDLENWAKMRRHDTVDG---FLREYEMLPNRSRT---TKNSDLKACNRYANVLDHSHRVLVETISGVG---TDYINANVDFYKQ : 83
ceClr-1_D1\g125154084 : HMLSTWCPCLTKMSTKDVV-ERTLLKQTCGAVPDDLPTVYVHRHTDFLFAQYSESLHFQGLDLSVNRKENAIKNRNDIAPDTRVKKKIGDDY---SDYINANVDFYKQ : 114
ceK04D7_4_D1\g117541230 : RLFYQYEDLNRSLSK---FKTQFQILSEQSGIDSVD---SGESNSDSESKNRYANVLDHSHRVLVETISGVG---NDYINANVDFYKQ : 85
dmPTP52F_D1\g124654059 : NVAKNFAPVTVAKG---EKLAREFEKTVVALELS---YSASELCHKNRYANVLDHSHRVLVETISGVG---YINASTITDHDPR : 81
dmPEZ_D1\g119920808 : RYSKKCOLQDLKLS---SOLFMEFERPKRREHAL---YECALLEENPKHDPNRYANVLDHSHRVLVETISGVG---CYNASSIATVG : 84
dmPTP69D2_D1\g124663403 : DITASAESEKRPNEG---KCKLEVEFEKLLATAEIS---KCSVGENEENNMKNRYANVLDHSHRVLVETISGVG---STYINANVDFYKQ : 88
dmCG7180_D1\g119921474 : -DRHFHKLCDLRRFP---VLYKLEFQTAARVESNT---CRHALKKNLEKNPKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 83
dmPTP99A_D2\g117136638 : -MAEQEELKNTCTY---LEQYKNIQFQPKDIH---IASAMQVNSIKNR-GALFIEGSRVHLTPKPGEDG---SDYINANVDFYKQ : 80
dmCG7180_D2\g119921474 : SEISDRKAKARRNSGTKMN---EYQAYDQCKQTPRTIG---DCAGHRADNREKNDVLCVDFNFPYLSFQGNAP---TDYINANVDFYKQ : 87
dmCG9311_D1\g124664316 : ESYETLAKLHVKMLNG---KTQLGAKWELQQLLKEAAN---KRSTIAKLFPEKNSLCLVDHSHRVLVETISGVG---DDYINANVDFYKQ : 90
cePTP2_D1\g117535377 : DLDFRFEIIRPIMPRESMEKTISEFDRSQALPAEQYLS---KREGRFVNAEKNRYANVLDHSHRVLVETISGVG---SDYINANVDFYKQ : 83
dmCSW_D1\g117137146 : ---AGINRQELQVKG---FWEFESLQDSRDFPS---RNGYQENRKNRYANVLDHSHRVLVETISGVG---AEYINANVDFYKQ : 159
dmPTP-ER_D1\g124657148 : SRMAQPELKENQKR---IFRDLHKEWDLPLNQ---EKPMVGSQTKNRYANVLDHSHRVLVETISGVG---EIKRTSVTASEDLVYINANVDFYKQ : 102
dmPTMEG_D1\g124654733 : ALPTQSLLLSDGLASG---ALLAVELRYKNDLA---ITEARKNAPKNRYANVLDHSHRVLVETISGVG---DYINANVDFYKQ : 83
ceClr-1_D2\g125154084 : GSPRVAISRESRMTSNGETGLEEFKERNLTPLS---SNFAAKDENLKNRYANVLDHSHRVLVETISGVG---SSYINANVDFYKQ : 92
dmCG14714_D1\g124646036 : ---SRFKQQRSGV---PRDANP---

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0      *      660      *      680      *      700      *      720
hBDP1_D1\NP_055184\PTPN18 :-----PDPSELDVILKRRKORPAAVOTE--EYVRFVYHTVAQMFC : 288
hCD45_D1\NP_002829\PTPRC :-----NKVDVGYVVKLRQRCLMVQVE--ADYVILHQAALVEYNO : 279
hCD45_D2\NP_002829\PTPRC :-----EVVDIYQVVKALRKARPGMVSTF--EYVQFLYDVIATYTP : 308
hDEP1_D1\NP_002834\PTPRJ :-----NTVDVYGIYVDRMHRPLMVQTE--DOYVFLNQCVLITFR : 277
hGLEPP1_D1\NP_109592\PTPRO :-----EFVDILGLVSEMSYRSMVQTE--EYVIFLHQCVQVMWM : 277
hHDFTP_D1\NP_056281\PTPN23 :-----GIPFLPQLVRRMRQRKMLQEK--LHLRRCYEAIVRRHS : 286
hHePTP_D1\NP_002823\PTPN7 :-----GEVDILGLVCCRLDRGGMIQTA--EYVQFLHHTLALYAG : 273
hIA2_D1\NP_002837\PTPN :-----VKELDIAATLEHLDQRPGVLRSK--DOFEFALTAVAEEN : 279
hIA2beta_D1\NP_002838\PTPN2 :-----AKEDDIAATLEHLDQRPGMVQTK--EYVFEALTAVAEEN : 279
hLAR_D1\NP_002831\PTPRF :-----KTYDITGHIYTCMSRNYMVQTE--DOYVFLHEALAEAT : 275
hLAR_D2\NP_002831\PTPRF :-----GVVDMQOTKTLRTORPAMVQTE--DOYVLCYRAAEYLG : 283
hMEG1_D1\NP_002821\PTPN4 :-----QPYPLDIVRTMRDORAMLIQTP--EYVRFVCEALIRVYE : 277
hMEG2_D1\NP_002824\PTPN9 :-----TIANVDTVSRMRTORAFSLQTP--EYVFCYKALIEFAR : 291
hPCPTP1_D1\NP_002840\PTPRR :-----GVVDLALSYVQLMDRGGMVQTS--EYVFEFHAAFLVYES : 275
hPEST_D1\NP_002826\PTPN12 :-----PEEFNVNLLQEMRTDRHSAVQTK--EYVFLHRAATQLFE : 291
hPTP1B_D1\NP_002818\PTPN1 :-----PSSVDIKVLEMKKFRMGLIQTA--DQLRSYLAIVEGAK : 279
hPTPalphad1\NP_002827\PTPRA :-----KVDVYGFVSRIRARQCMVQTD--MOVVFLYQALIEHYL : 280
hPTPalphad2\NP_002827\PTPRA :-----LLDVYQTVKSLRLRORPHMVQTL--EYVFCYKVVQYELD : 282
hPTPBAS_D1\NP_006255\PTPN13 :-----LDFDIDSLVRCMLRQRHGMVQTE--DOYIRCYQVLYVLT : 272
hPTPbeta_D1\NP_002828\PTPRB :-----DSVDIYGAHDLRLHRVHMVQTE--COMVFLHQCVRDVLR : 280
hPTPD1_D1\NP_008970\PTPN21 :-----EVLDIRVRLDMLRQRMLVQTL--COYTFYRVLYQFLK : 292
hPTPD2_D1\NP_005392\PTPN14 :-----EKVEMPMMLRLLEORFMFIQTI--ADYKVVYQVLYQFLK : 292
hPTPdelta_D1\NP_002830\PTPRD :-----KTVDIYGHVTLMAQRNYMVQTE--DOYIFLHDALLEAVT : 275
hPTPdelta_D2\NP_002830\PTPRD :-----VVDIYQTVKMLRTORPAMVQTE--DOYVRSYRAAEYLG : 283
hPTPepsilon_D1\NP_006495\PTP :-----QKVDVYEFVSRINRORPMVQTD--MOVTFYQALIEVYL : 279
hPTPepsilon_D2\NP_006495\PTP :-----LLDVYQAVKSLRLRORPHMVQTL--EYVFCYKVVQYDFLD : 287
hPTPgamma_D1\NP_002832\PTPRG :-----STVNVLGFVLRKHLRTORNYLVQTE--EYVIFLHDALLEAIL : 291
hPTPgamma_D2\NP_002832\PTPRG :-----NAVVDYQVAKMNLMRPGVFTDI--EYVQFYKARLISLVS : 283
hPTPH1_D1\NP_002820\PTPN3 :-----LPTVPLDIRKMRDORAMMVQTS--EYVFCYCEALIRVYE : 276
hPTPkappad1\NP_002835\PTPRK :-----GVVDIYNCVTKLRSRKNMVQTE--EYVIFLHDALLEACL : 274
hPTPkappad2\NP_002835\PTPRK :-----NVVDVYHAKVTLRNSKPNMVQAP--EYVRCYDVAIEYEL : 283
hPTPlamda_D1\NP_005695\PTPRU :-----VVDIYNCVTKLRSRKNMVQTE--EYVIFLHDALLEACL : 270
hPTPmu_D1\NP_002836\PTPRM :-----GVVDIYNCVRELRSRKNMVQTE--EYVFEFHDALEACL : 274
hPTPmu_D2\NP_002836\PTPRM :-----TVDFVYHAKVTLRNSKPNMVQDL--DOYKFCYDVAIEYEL : 283
hPTPrho_D1\NP_573400\PTPRT :-----GVVDIYNCVRELRSRKNMVQTE--EYVFEFHDALEACL : 274
hPTPrho_D2\NP_573400\PTPRT :-----NLIIDVHIVKTLRNSKPNMVQEL--EYVKEVYVAIEYEL : 283
hPTPS31_D1\AR073855\PTPGM1 :-----DFVDIYGLVAELRSRSMCMVQNL--ADYIFLHQCLDLEL : 276
rOSTPTP_D1\NP_149090\Esp :-----KVADVENTVYILRLRPLMIQTL--EYVIFLHSLCKRLL : 279
hPTPsigma_D1\NP_002841\PTPRS :-----KTYDYGHVTLMSRORNYMVQTE--DOYSEFLHEALAEVQ : 275
hPTPsigma_D2\NP_002841\PTPRS :-----VVDIYQTVKMLRTORPAMVQTE--DOYVFCYQAAEYLG : 283
hPTPTyp_D1\A1050040\PTPN20 :-----CSFNIMDIYQAQREORSGMVQTK--EYVHRCYDVAIEVLR : 274
hPTPzeta_D1\NP_002842\PTPRZ1 :-----TVNLYGFLKHLRSORNYLVQTE--EYVFEHDTLVEAIL : 293
hPTPzeta_D2\NP_002842\PTPRZ1 :-----NSVDYQVAKMNLMRPGVFADI--EYVQFLYKVLISLVS : 282
hSAP1_D1\NP_002833\PTPRH :-----GLLGFSEFVRKMRERPLMVQTE--ADYVFLHQCCGSSN : 279
hSHP1_D1\NP_002822\PTPN6 :-----CCDIDIKQTVQWVRAQRSGMVQTE--ADYKFLYVAIAQFEL : 297
hSHP2_D1\NP_002825\PTPN11 :-----CCDIDVPKTVQWVSRSGMVQTE--ADYRFYMAVQHYEL : 300
hTCTPT_D1\NP_002819\PTPN2 :-----DDINIKQVLLNKKYRMLQIOTP--DQLRSYMAIVEGAK : 275
hLyPTP_D1\NP_057051\PTPN22 :-----PENFVSRLIREMRTORPSLVQTE--EYVFLYNAVLELFE : 291
hPTPlamda_D2\NP_005695\PTPRU :-----LVDVYFAAKTLRNYKPNMVQEM--DOYHRCYDVAIEYEL : 284
hSTEP_D1\NP_116170\PTPN5 :-----GVVDILKTCQLRQDRGMIQTC--EYVQFVHHVMSLVEK : 276
dmLAR_D2\g124585307 :-----VLDVYQTVKSLRLRORPHMVQTL--EYVFCYRAAEYELG : 283
dmLAR_D1\g124585307 :-----IIDIYGHVTLRAQRNYMVQTE--DOYIFLHDALLEAIL : 275
cePTP3_D1\g125146575 :-----NTVDIYGCVTALRAQRNYMVQTE--EYVIFLHDALDAVN : 275
dmIA2_D1\g124580758 :-----AREDDIAATLEHLDORAGVVATR--QDFEFLMAVAEVEH : 280
cePTP1_D1\g117554412 :-----EPVYPLDIRVTRMDORAMLIQTP--GOYTFVCEALIRYH : 279
dmPTP99A_D1\g117136638 :-----NIIVNDFGLRIRARQNFVQTE--EYVIFLHDALLEAIL : 285
cePTP3_D2\g125146575 :-----VVDVYITVKKLRTERQNMIQEP--EYVHFLYLAAYEYLA : 282
dmPTP61F_D1\g117136414 :-----ECNVSKVLCELRSYRMLGIQTA--DQLDSYQATIEGK : 286
dmCG32697_D1\g118958107 :-----TADIRGTVKRSRAYSQMP--DOYVFEHLALLEYAY : 291
dmPTP10D_D1\g124641350 :-----VVDVYGLVYFAKKEFRVPMVQTE--DOYVFLHQCLAVEE : 275
dmPTP4E_D1\g124639790 :-----DYVDLGIYVFAKKEFRVPMVQTE--COMVCHQCLAVEE : 275
cePTP10D_D1\g117534045 :-----DHPDVGTVCEMRYRCKMVQNE--COMVFLHYCLVQVQ : 282
ceIDA_D1\g125143920 :-----TRQDHWATVVEHLRDRDQVAFG--DQKLVYGVVAQEN : 273
dmPTP69D_D1\g124663403 :-----DSYSLNTVCDLRRORNFVQSL--KQVIFLYRALDITGT : 283
ceClr-1_D1\g125154084 :-----KANLIEFVCLNRSORNLVQSL--EYVFLYKALAEKHM : 332
cek04D7_4_D1\g117541230 :-----RLAVQGHITMREORAKLVQTL--EYVIFCHEALIEQLR : 280
dmDPTP52F_D1\g124654059 :-----SKINLETFVKKLRFORMKMVQTE--QOYTFVACTYELK : 270
dmPEZ_D1\g119920808 :-----EDLDLPRVIGQLRDRSDIIPSL--ADYKFLYNLLITVYK : 284
dmPTP69D_D2\g124663403 :-----CVDIKATTKRLRSORGLINSY--ADYFLHRAILNYS : 286
dmCG7180_D1\g119921474 :-----ECFNVYGVYKLRQSRKGLVENV--EYVQFYDTEHEH : 288
dmPTP99A_D2\g117136638 :-----TANVYQVAKLVHNRKPGVWTS--EDIRVLYNLSFLPG : 269
dmCG7180_D2\g119921474 :-----EVDVYQAVKTVRRHRPQLVENM--TEKKCYDVLVHYVL : 296
dmCG9311_D1\g124664316 :-----LNTIDVNSRICACRQNSLRDSAIL--EYVSMQVLCNAHNV : 286
cePTP2_D1\g117535377 :-----LCPMDVYKMKVYRTYRSGLVQTE--QOYVFLYKALAFYK : 343
dmCSW_D1\g117137146 :-----DTEIDIQRTIQWVSRSGLVQTE--ADYKFLYVAIAQHYEL : 435
dmPTP-ER_D1\g124657148 :-----STEEYHNPTDSSSFTCNTIRHISHLDRDAEAVKTPPSFDRLPKMPDIFVDVGLVGNLRLRQGGMVQNS--EYVFLHRAALCYLK : 496
dmPTMEG_D1\g124654733 :-----EPVYPLDIRVTRMDORACMVQNV--EYVRFVCEALIRYH : 337
ceClr-1_D2\g125154084 :-----QR--LDVYQTVKGLQSHRPMF--TRFEVYSCYRAALADYS : 295
dmCG14714_D1\g124646036 :-----RSVDIYQLVYVYRGRASAVQTK--EYVFEYKVASMYAA : 261

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