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hBDP1_D1\NP_055184\PTPN18 : DSARFLEERLARGGRE---GAVLAGEFSDIQACSAANKADG---VCS2VAGSRPEVNRKRVKDVLDVQTRVLSLLEQEGH---SDYINGNIRIGVDG : 92
hCD45_D1\NP_002829\PTPRC : DIILRTYKRIKLADEGR---LFLAEFQSPRPFVSKFP---LKEARKPFNKNRNVLDVLDVYKRVSEJINGDAG---SNYNASVIGDFKE : 83
hCD45_D2\NP_002829\PTPRC : SEHPVYLNKRRKDDPS---EPSLEAEFORPYSRNR---TQHIGQNEENSKNRNSVLPDYKRV-LKHELEMSKESEHSDSDSDSDSE-PSKYNASVMSYWK : 106
hHSTP1_D1\NP_002834\PTPRJ : ENFEAYFKQADSN---CGFAEYEDKLVIGISQ---PKYAALAEANRGNKRVNVLVDVIRVK-LSVQTHSTD---DYINANVYVYHS : 82
hGLEPPI1_D1\NP_109592\PTPRO : DDFDAYKDAKSDS---YKFLDQFEELKILGIDLP---HFAADLPLRCKNRVTLNLPVDFSRVRLVSNQEEG---ADYINANVYVYNS : 83
hHDDPT_D1\NP_056281\PTPN23 : ERIRQLQQLLAFRQQLG---DVGVALDVTREELQDQEHADR---GRSIALARCYLNRKRCVMPVDSNKRVLRSRK---DYINASCVEGLSP : 86
hHEPTP_D1\NP_002823\PTPN7 : HPTTRWALQRQPPSPK---QLEEFELKIPSNVSP---EDLDIPGHASKDRKTLNLPNQRKVCVLRQASQED---GDYINANVYVYDGK : 82
hIA2_D1\NP_002837\PTPRN : HMLAYEDHLNRNRD---LAKEWALCAYQAEFN---TCATAQEGEIKKRNRPFLVDHARK-LKVESGSPR---SDYINASVIEHDPR : 84
hIA2beta_D1\NP_002838\PTPRN2 : HMLAYEDHLKNNKR---LKEWALCAYQAEFN---SSFAQEEVVKPNRSLAVTVDHNRV-LKAGNSGH---SDYINASVIMHDPR : 84
hLAR_D1\NP_002831\PTPRF : TTDADNERLWANDG---LKFQYSESDPQGFPT---WENSNLVEKPKNRAVNLNDRHVRVLSICVPG---SDYINANVYVYRK : 82
hLAR_D2\NP_002831\PTPRF : RNLVYHQRKQVPPGE---SVTAMELEKLLASSKAHTS---RFSANLPCNPKPNRVLNVLVETLTVCLQPIRGVGE---SDYINASVLDVYQ : 88
hMEG1_D1\NP_002821\PTPN4 : HSRRESIQALAEGLTG---TVLTDFQQLYKPKGMT---MSCAKLPQNSIKNRVDSVETVATVILKQNE---DYINANVYVYNS : 80
hMEG2_D1\NP_002824\PTPN9 : WTLQELDYLNARQKQ---GIYEDERREMPVG---TFHCSMSPQLEKRVCEVPTCLDQTKKTKRSHTQ---TDYINASVEMVYQ : 83
hPCPTP1_D1\NP_002840\PTPRR : SRLTRSQRLDVIIVASS---HLQSEWELPMNVDPD---KEIDIPRGTKNRKTLLNPLSRVLRPKNVDS---LSTYINANVYVYSGK : 84
hPEST_D1\NP_002826\PTPN12 : EILRFKQRYQAMKSPDHN---GEDNFARDNRRLSTKYRTEK---IYPTATGKHEKVKVKNRVDLDFHRSVK-LTLKTPSQD---SDYINANVYVYQ : 95
hPTP1B_D1\NP_002818\PTPN1 : MEMEKPEQLDKSGS---WAAVQDRHEASDFP---CRVALPKPKNNRVRDVSFDRSRK-LHQED---NDYINASLTKMEA : 77
hPTPalpha_D1\NP_002827\PTPRA : DKLEEEENRMADDNK---LFRFEENAPACPIQAT---CEAASKEENKKNRVLNVLVDHRSVHLTPVEGVDP---SDYINASVINGYQ : 83
hPTPalphad2_D1\NP_002827\PTPRA : TSEETHQKLVNPKIPG---T-SNNGLEEFKTSIKIQND---KMRGTLPANMKKNRVLOLIPVEFNVLTPVKRGEEN---TDYINASVLDVYQ : 88
hPTPBAS_D1\NP_006255\PTPN13 : KSRIVRGLLDQIGP---SKLENIQELKPLD---QMLGTLPNRRKRNKVLNLPVATVTP-LGDE---GCYNASVTKIPVKG : 77
hPTPbeta_D1\NP_002828\PTPRB : NQFGEFMKIQADSN---YLLSKVEELKIVGRNQ---SCDIALLENRGNKRVNVLVDVATVVKLSNVDDPDC---SDYINASVYVYNNF : 85
hPTPD1_D1\NP_008970\PTPN21 : ATNDRCKLEQLRQEG---MVFTYERLKKRLLD---ECSTARLPENAEARNRQVLDVDAVVELVPTKENNT---CYINASHIKVSVSG : 83
hPTPD2_D1\NP_005392\PTPN14 : VPDERFRTKPKLEEG---MVFTYEQPKPKKANG---IPFSTAALPENAEERLREIVVPEENVELIPTKENNT---CYINASHIKVSVSG : 84
hPTPdelta_D1\NP_002830\PTPRD : LMLADHERLKANN---LKFQYSESDPQGFPT---WEHNSLVNPKPNRVLNVLVDHRSVLSALEIGIP---SDYINANVYVYQ : 82
hPTPdelta2_D1\NP_002830\PTPRD : RNLVYHQRKQVPPGE---E-NVTGMELEFRKASSKAHTS---RFSANLPCNPKPNRVLNVLVETLTVCLQPIRGVGE---SDYINASVLDVYQ : 88
hPTPepsilon_D1\NP_006495\PTP : HLEESERIRRSADCK---QPREFNSLPSGIQG---TFELANKEENKKNRVLNVLVDHRSVLSQLDGIPC---SDYINASVLDVYQ : 88
hPTPepsilon2_D1\NP_006495\PTP : SSKKHQTHMGTTHFPD---KIGLEEFKRNIVRIMKEN---MRTGNLPAKMKRAVLIQVLDVFNVLISMKRGOEY---TDYINASVLDVYQ : 88
hPTPgamma_D1\NP_002832\PTPRG : NQFVHKGELVSNQHG---FSEDFEQRCTADMN---ITASHNHNKKNRVLNVLVDHRSVLRPLGKDKS---HSDYINANVYVYK : 87
hPTPgamma2_D1\NP_002832\PTPRG : NQFVHNSLILPVG---KTRLEKDFKLTQCNKAVY---ECFSAQCKEKNKRNRSVLSERAKVCLAPLPGMKG---TDYINASVIMYR : 87
hPTPH1_D1\NP_002820\PTPN3 : DTLESGMAQLKGLSEG---TVLIQEQYRKKPGLA---ITPAKLPKLDKKNRVDVLDVTRVLLQNE---DYINASVYVYPAAN : 82
hPTPkappa_D1\NP_002835\PTPRK : ADLQHLNMLKTSDDSG---FKEEYSEFFEGQAS---MDVAKQNRKAKNRVGNITADHRSVLRQVDDPS---SDYINANVYVYQ : 82
hPTPkappa2_D1\NP_002835\PTPRK : KAAYPNIRLDSQTNSS---HLKDFEYQINSVTPRLQ---AEDCSACLPRNHDKNRVMMLPDRCLPFLITDGESS---NYINAAIMDSYRQ : 87
hPTPlambda_D1\NP_005695\PTPRU : ADLQHLNMLKTAGG---YQFKQYSEFFEG---WDATKDKKVKVSGQEPMPADRHVKLHPMLGDPN---ADYINANVYVYR : 78
hPTPmu_D1\NP_002836\PTPRM : ADLQHTQMKCAGG---YQFKQYSEFFEGQAS---MDSAKDEPRMKNRVLNVLVDHRSVLRQVLEGGTN---SDYINGNIRIGVDG : 82
hPTPmu2_D1\NP_002836\PTPRM : RSLVYQMKRQGTSS---QIKKEFTLNVVPTTLR---VEDCSIALPRPKKNRVMMLPDRCLPFLITDGESS---NYINAAIMDSYRQ : 86
hPTPrho_D1\NP_573400\PTPRT : ADLQHTQMKRQGYG---FKYKALDRQGTAS---WDTAKEENKKNRVLNVLVDHRSVLRQVLEGGTN---SDYINGNIRIGVDG : 82
hPTPrho2_D1\NP_573400\PTPRT : RSLVYQMKRQGTSS---QIKKEFTLNVVPTTLR---EDCSIGLLPRNHDGNVMDVLELRCPLPFLISVDESS---NYINAAIMDSHQP : 87
hPTPS31_D1\NP_073855\PTPGC1 : KSFLOHQLTNNN---LKFQYSESDPQGLDLS---STDADLPMRANRPNKIPVNNRKLIDASVPH---SDYINASVYVYVLC : 84
rOSTPTP_D1\NP_149090\Esp : HFRQSYEAKSAHAQT---FFQFEELKPKVLDQDP---RLEAHEPNIINRPHVLDHRSVLRQVLPGEFG---SDYINANVYVYSH : 83
hPTPsigma_D1\NP_002841\PTPRS : ADLAEHTERKANDS---LKLQYSESDPQGFPT---WEHNSLVNPKPNRVLNVLVDHRSVLRQVLEGGTN---SDYINANVYVYR : 82
hPTPsigma2_D1\NP_002841\PTPRS : RNLVYHQRKQVPPGE---HVTGMLEFRKASSKAHTS---RFSANLPCNPKPNRVLNVLVETLTVCLQPIRGVGE---SDYINASVLDVYQ : 88
hPTTYP_D1\NP_050040\PTPN20 : TPKDCKIKLEKTAAY---DIMQEMALEKMLPG---EYFSGNQPSNREKNRVDLVDVSTVPLKSKK---DYINASVIRVNGV : 80
hPTZeta_D1\NP_002842\PTPRZ1 : KHFPKHADHASSGFT---EFETLKEFYQVQSCVTDLG---ITADSSNLPKKNRVLNVLVDHRSVLRQVLEGGTN---LTYINANVYVYK : 92
hPTZeta2_D1\NP_002842\PTPRZ2 : SHHAYNALILPGGAP---KTKLEQFQLSSQSIQGS---DYSAAKQCKREKNTSSIIVERSRVGLSSLSGEGT---DYINASVIMCYQ : 86
hSAP1_D1\NP_002833\PTPRH : EDFADWRKNERDSCG---FADEYQQLSLVGHQSQS---QMASASENNAKNRVNLVYVNSRVLKPIHEEFG---SDYINASVPLGWS : 83
hSHP1_D1\NP_002822\PTPN6 : ADENRLELNKQESDIT---AKAGWFEEFESQKQEVKNLH---QRLEQRPENKKNRVLNVLVDHRSVLRQVLDGSDSNIPG---SDYINANVYVYK : 95
hSHP2_D1\NP_002825\PTPN11 : AELESRRRESKLAETTK---QQQGFVEEFTLQQQCKLILYS---RKEGQORPKKNRVLNVLVDHRSVLRQVLDGSDPNEP---VSDYINANVYVYK : 96
hTCTP_D1\NP_002819\PTPN2 : TTEREPEELDQRR---WQPLYLERNEHSDYD---HRVAKFPENRNRVLDVVDHRSVLRQVLEGGTN---DYINASVLDIEEA : 77
hLPTP_D1\NP_057051\PTPN22 : MDQREILQKFLDEAGSKKI---TKEEFANFKLKRQSTKYKADK---TYPTVALEPKPKIKKNRVDLVDVSRVLSLITSDDED---SSYINANVYVYK : 95
hPTPlambda2_D1\NP_005695\PTPRU : KATYKELRDPQSNSS---QLEEFQINSVTPPLD---VECSIALPRNHDKNRVMMLPDRCLPFLITDGESS---NYINAAIMDSYR : 86
hSTEP_D1\NP_116170\PTPN5 : SRLQAEELHEKALDP---FLLQAEFFELPMNVDPK---EYDIPGLVRKNRVTLLNPHRSVLRQVLEGGTN---LSSYINANVYVYK : 84
dmLAR_D2\g124585307 : RNLVYHQRKQVPPGE---TISGMEVFKKSNVMDSS---KVTANLPCNPKPNRVLNVLVDHRSVLRQVLEGGTN---SDYINANVYVYK : 88
dmLAR_D1\g124585307 : SEFANHERLKNNDNQ---KFSQYSESDPQGFPT---WDSNLEHNKKNRVLNVLVDHRSVLRQVLEGGTN---SDYINANVYVYK : 82
cePTP3_D1\g125146575 : AEFANHERLKNNDNQ---FQSEFSEETQGHPT---HESSADMKKNRVLNVLVDHRSVLRQVLEGGTN---MDYINANVYVYK : 88
dmIA2_D1\g124580758 : HMLAYEDHLNRNRG---LQREWALCRYEAEPS---AREASAQQCAGLNRGAPVLDHRSVLRVNLHANAEG---LDYINASTITDHDPR : 84
cePTP1_D1\g117554412 : DKLSKSLADSLNG---KVVDFHMLYKPKGMS---MNICRLTANLAKNRVLDVVDHRSVLRQVLEGGTN---GDYINANVYVYK : 84
dmPTP99A_D1\g117136638 : NEFAKHVASHADGDG---FSREYEAQNECISDD---LPCEHQHPENKKNRVLNVLVDHRSVLRQVLEGGTN---LDYINANVYVYK : 87
cePTP3_D2\g125146575 : SRLVQHHLISQPSADQ---LSGIDMEFRHLTKWTSN---RCTVANLPNPKPNRVLNVLVDHRSVLRQVLEGGTN---SDYINASVLDVYK : 87
dmPTP61F_D1\g117136414 : AAARLQAEAYDKDGPQ---WHRFVKECTCDREAKEK---QFSTSESERHTNRLNRRVLDVVDHRSVLRQVLEGGTN---VDYINANVYVYK : 85
dmCG32697_D1\g118958107 : KSFVYHQRKQVPPGE---FSEFELKIVRQDP---CTFALPCNPKPNRVLNVLVDHRSVLRQVLEGGTN---SDYINANVYVYK : 83
dmPTP4E_D1\g124639790 : KDFSHVYRISADSDPR---FSEFELKIVRQDP---ACSFANLPCNPKPNRVLNVLVDHRSVLRQVLEGGTN---SDYINANVYVYK : 83
cePTP10D_D1\g117534045 : EDFADWRKNERDSCG---FSEYDMMRNVGVQGS---VAASELIRNPNRVTLPSVDRKVLSPNNDKPE---GDYINANVYVYK : 83
ceIDA_D1\g125143920 : HYLWQYLSPTK---IEADNNGKDYRNER---TKTKAEKFAQONRTLQDNIVDGKTAENE---DFYINASVYVYK : 80
dmPTP69D_D1\g124663403 : LDLENWYKMRHDDTDG---FLREYEMLPNRSRT---TKNSDLKACNRPVLDKAMDQTRVYKLVINGLTQ---TDYINANVYVYK : 83
ceClr-1_D1\g125154084 : HMLSTWCPCLTKMSTKDVV---ERTLLKQTCGAVPDDLPTVYVHRHTDFLFAQYSESLHFQGLDQYVYVYK---SDYINANVYVYK : 114
ceK04D7_4_D1\g117541230 : RLFYGYELNRMDSLK---FKTQFQILSEQSGIDSVD---SGEISSSDSKNKNRNLGATEATLRLNSPTG---NDYINANVYVYK : 85
dmPTP52F_D1\g124654059 : NVLAKNFAIVTVAEK---EKLAEEKEITVALELS---YSASELCHKNRVLNVLVDHRSVLRQVLEGGTN---YINASVLDVYK : 81
dmPEZ_D1\g119920808 : RYSKDKCQLDQLSD---SOLFMEFERPKRREHAL---YECALLEENEPKHDPNPLVDNDRVLTPCRNRH---CYVNASVATVYK : 84
dmPTP69D2_D1\g124663403 : DITASAESEKRPNEG---KCKLEVEFEKLLATAEIS---KCSVGENEENNMKNRQELIPDRNVLITLPMREN---STYINASVYVYK : 88
dmCG7180_D1\g119921474 : -DRHFVYKLCQKRRFP---VLYKLEFQTAARVESNT---CRHALKKNLEKNPKCLPVDYKRVLEVGLGQD---SDYINASVLDVYK : 83
dmPTP99A_D2\g117136638 : -MAEQVEELKCTPY---LEQYKNIQFQPKDIH---IASAMQVNSIKNR-GALFIEGSRVHLTPKPGEDG---SDYINASVLDVYK : 80
dmCG7180_D2\g119921474 : SEISDRKAKARRNSGTKMN---EYQAYDQCKQKPTPTIG---DCAGHRADNREKNDVLCVPEENFPYLSFQGNAP---TDYINASVYVYK : 83
dmCG9311_D1\g124664316 : ESYETLAKLHVMKLVG---KTQLGAKWELQQLLKEAAN---KRSTIAKLFPEKNSLCLVDHARKV-LDKQT---DDYINAAIMKNSAG : 90
cePTP2_D1\g117535377 : DLFVDFEIRPIMPRESMEKTISEFDRSQALPAEQYLS---KREGRFRVNAEKNRVLNVLVDHRSVLRQVLEGGTN---SDYINASVYVYK : 83
dmCSW_D1\g117137146 : ---AGINRVEQLVKG---FWEFESLQDSRDFPS---RNGYQENRKLKKNRVLNVLVDHRSVLRQVLEGGTN---AEYINANVYVYK : 159
dmPTP-ER_D1\g124657148 : SRMAQPELKENQKR---IFRDLHKEFWDLPLNQ---EKPMVGSQTKNRVLTNENSRVLESSELSLTLG---EIKRTSVTASEDLPIYANVYVYK : 102
dmPTMEG_D1\g124654733 : ALPTQSLLLSDGLASG---ALLAVELVYKRNPDLA---ITEARKNAPKNRVLNVLVDHRSVLRQVLEGGTN---DYINANVYVYK : 83
ceClr-1_D2\g125154084 : GSRVRAVSSRESMTSNGETGLEEFKERNLTPLS---SNFAAKDENLKNRYEAAVFDKRYRILPPTIGHAD---SSYINASHIKVYFPD : 92
dmCG14714_D1\g124646036 : -SRFKQQRSGV---PRDANP---

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0      *      660      *      680      *      700      *      720
hBDP1_D1\NP_055184\PTPN18 :-----PDFSELDVILKRRKORPAAVOTE--EYVRFVYHTVAQMFC : 288
hCD45_D1\NP_002829\PTPRC :-----NKVDVGYVVKLRORCLMVQVE--ADYVILHQAALVEYNO : 279
hCD45_D2\NP_002829\PTPRC :-----EVVDIYQVVKALRKARPGMVSTF--EYVQFLYDVIATYTP : 308
hDEP1_D1\NP_002834\PTPRJ :-----NTVDVYGIYVDRMHRPLMVQTE--DOYVFLNQCVLITFR : 277
hGLEPP1_D1\NP_109592\PTPRO :-----EFVDILGLVSEMSYRSMVQTE--EYVIFLHQCVQVLMWM : 277
hHDFTP_D1\NP_056281\PTPN23 :-----GIPFLPQLVRRMQRQRKMLQEK--LHLRRCYEAIVRRHS : 286
hHePTP_D1\NP_002823\PTPN7 :-----GEVDILGLVCCRLDRGGMIQTA--EYVQFLHHTLALYAG : 273
hIA2_D1\NP_002837\PTPN :-----VKELDIAATLEHLDORPGLVRSK--DOFEFALTAVAEEN : 279
hIA2beta_D1\NP_002838\PTPN2 :-----AKEDDIAATLEHLDORPGLVRSK--DOFEFALTAVAEEN : 279
hLAR_D1\NP_002831\PTPRF :-----KTYDITGHIYTCMSRNYMVQTE--DOYVFLHQAALVEAT : 275
hLAR_D2\NP_002831\PTPRF :-----GVVDMHOTVRLTTRPAMVQTE--DOYVLCYRAAEYELG : 283
hMEG1_D1\NP_002821\PTPN4 :-----QPYPLDIVRTMRDORAMLIQTP--DOYRFVCEALIRVYE : 277
hMEG2_D1\NP_002824\PTPN9 :-----TIANVDTVSRMRTORAFSLQTP--EYVFCYKALIEFAR : 291
hPCPTP1_D1\NP_002840\PTPRR :-----GVVDLALSYVQLMDRGGMVQTS--EYVFEFHAAFLVYES : 275
hPEST_D1\NP_002826\PTPN12 :-----PEEFNVNLLQEMRTDRHSAVQTK--EQYELVHRAIAQLFE : 291
hPTP1B_D1\NP_002818\PTPN1 :-----PSSVDIKVLEMKKFRMGLIQTA--DQLRSYLAIVEGAK : 279
hPTPalphad1\NP_002827\PTPRA :-----KVDVYGFVSRIRARCOMVQTD--MOVVFLYQALIEHYL : 280
hPTPalphad2\NP_002827\PTPRA :-----LLDVYQTVKSLRLRORPHMVQTL--EYVFCYKVVQYELG : 282
hPTPBAS_D1\NP_006255\PTPN13 :-----LDFDIDSLVRCMLRORHGMVQTE--DOYIRCYQVLYVLT : 272
hPTPbeta_D1\NP_002828\PTPRB :-----DSVDIYGAHDLRLHRVHMVQTE--COMVFLHQCVRDVLR : 280
hPTPD1_D1\NP_008970\PTPN21 :-----EVLDFPRVLDMLRQRMMVLQTL--COYTFVYRVLQFLK : 292
hPTPD2_D1\NP_005392\PTPN14 :-----EKVEMPMMLRLLEORFMFIQTI--ADYKVVYQVLIQFLQ : 292
hPTPdelta_D1\NP_002830\PTPRD :-----KTVDIYGHVTLMAORNYMVQTE--DOYIFLHDALLEAVT : 275
hPTPdelta_D2\NP_002830\PTPRD :-----VVDIYQTVKMLRTRPAMVQTE--DOYVRSYRAAEYELG : 283
hPTPepsilon_D1\NP_006495\PTP :-----QKVDVYEFVSRINORPQMVQTD--MOVTFYQALIEYVL : 279
hPTPepsilon_D2\NP_006495\PTP :-----LLDVYQAVKSLRLRORPHMVQTL--EYVFCYKVVQDFLD : 287
hPTPgamma_D1\NP_002832\PTPRG :-----STVNVLGFVLRKLRTRRNYLVQTE--EYVIFLHDALLEAIL : 291
hPTPgamma_D2\NP_002832\PTPRG :-----NAVVDYQVAKMNLMRPGVFTDI--EYVQFYKARLISLVS : 283
hPTPH1_D1\NP_002820\PTPN3 :-----LPTVPLDIVRMRDORAMMVQTS--DOYKVVCEALIRVYE : 276
hPTPkappad1\NP_002835\PTPRK :-----GVVDIYNCVTKLRSRKNMVQTE--EYVIFLHDALLEACL : 274
hPTPkappad2\NP_002835\PTPRK :-----NVVDVYHAKVTLRSKPNMVQAP--EYVRCYDVAIEYELG : 283
hPTPlamda_D1\NP_005695\PTPRU :-----VVDIYNCVTKLRSRKNMVQTE--EYVIFLHDALLEACL : 270
hPTPmu_D1\NP_002836\PTPRM :-----GVVDIYNCVRELRSRKNMVQTE--EYVFEFHDAIEACL : 274
hPTPmu_D2\NP_002836\PTPRM :-----TVDFVHAKVTLRNNKPNMVQLL--DOYKVCYVAIEYELG : 283
hPTPrho_D1\NP_573400\PTPRT :-----GVVDIYNCVRELRSRKNMVQTE--EYVFEFHDAIEACL : 274
hPTPrho_D2\NP_573400\PTPRT :-----NLIIDVHIVKTLRNNKSNMVVEL--EYKVVYVAIEYELG : 283
hPTPS31_D1\AR073855\PTPGM1 :-----DFVDIYGLVAELRSRSMCVQNL--ADYIFLHQCLIDLES : 276
rOSTPTP_D1\NP_149090\Esp :-----KVADVENTVYILRLRPLMIQTL--SOYIFLHSLCKRLL : 279
hPTPsigma_D1\NP_002841\PTPRS :-----KTYDYGHVTLMSRORNYMVQTE--DOYSEFLHQAALVEAG : 275
hPTPsigma_D2\NP_002841\PTPRS :-----VVDIYQTVKMLRTRPAMVQTE--DOYVFCYQAAIEYELG : 283
hPTPTyp_D1\A1050040\PTPN20 :-----CSFNIMDIYQAQREORSGMVQTK--EYVHRCYDVIIEVLR : 274
hPTPzeta_D1\NP_002842\PTPRZ1 :-----TVNIEYGFVLRKRSRNYLVQTE--EYVFEHDTLVEAIL : 293
hPTPzeta_D2\NP_002842\PTPRZ1 :-----NSVDYQVAKMNLMRPGVFDI--EYVQFLYKVLISLVS : 282
hSAP1_D1\NP_002833\PTPRH :-----GLLGFSEFVRRKRESRPLMVQTE--ADYVFLHQCCGSSN : 279
hSHP1_D1\NP_002822\PTPN6 :-----CCDIDIKQTVQWVARSQMVQTE--ADYKFLYVAIAQFIE : 297
hSHP2_D1\NP_002825\PTPN11 :-----CCDIDVPKTVQWVARSQMVQTE--ADYRFYMAVQHYIE : 300
hTCPTP_D1\NP_002819\PTPN2 :-----DDINIKQVLLNKKYRMLQIOTP--DQLRSYMAIVEGAK : 275
hLyPTP_D1\NP_057051\PTPN22 :-----PENFVSRVSLIREMRTORPSLVQTE--EYVFLVYNAVLELFP : 291
hPTPlamda_D2\NP_005695\PTPRU :-----LVDVYFAAKTLRNYKPNMVQEM--DOYHRCYDVAIEYELG : 284
hSTEP_D1\NP_116170\PTPN5 :-----GVVDILKTCQLRQDRGMIQTC--EYVQFLHHVMSLVEK : 276
dmLAR_D2\g124585307 :-----VLDVYQTVKSLRLRORPHMVQTL--DOYHRCYRAAEYELG : 283
dmLAR_D1\g124585307 :-----IIDIYGHVTLRAORNYMVQTE--DOYIFLHDALLEAIL : 275
cePTP3_D1\g125146575 :-----NTVDIYGCVTALRAORNYMVQTE--EYVIFLHDALDAVN : 275
dmIA2_D1\g124580758 :-----ARELDIAATLEHLDORAGVVATR--QDFEFLMAVAEVEH : 280
cePTP1_D1\g117554412 :-----EPVYPLDIVRTMRDORAMLIQTP--DOYTFVCEALIRYH : 279
dmPTP99A_D1\g117136638 :-----NIIVNDFGLRIRARORNFVQTE--EYVIFLHDALLEAIL : 285
cePTP3_D2\g125146575 :-----VVDVYITVKKLRTRERQNMIQEP--EYVHFLYLAAYEYLA : 282
dmPTP61F_D1\g117136414 :-----ECNVSKVLCELRSYRMLGIQTA--DQLDSYQATIEGK : 286
dmCG32697_D1\g118958107 :-----TADIRGTVKRSRAYSQMP--DOYVFLHQAALVEYAY : 291
dmPTP10D_D1\g124641350 :-----DYVDIYGVVFAKKEKRVPMVQTE--DOYVFLHQCLAVEE : 275
dmPTP4E_D1\g124639790 :-----DYVDIYGVVFAKKEKRVPMVQTE--DOYVFLHQCLAVEE : 275
cePTP10D_D1\g117534045 :-----DHPDVGTVCEMRYRCKMVQNE--COMVFLHYCLVQVQ : 282
ceIDA_D1\g125143920 :-----TRQDHWATVVEHLRDRDQVAFG--DQKLVYGVVAQEN : 273
dmPTP69D_D1\g124663403 :-----DSYSLNIVCDLRRORNFVQSL--KQVIFLYRALDITGT : 283
ceClr-1_D1\g125154084 :-----KANLIEFVCLNRSORNLVQSL--EYVFLYKALAEKHM : 332
cek04D7_4_D1\g117541230 :-----RLAVQGHITMREORAKLVQTL--EYVIFLCEALIEQLR : 280
dmDPTP52F_D1\g124654059 :-----SKINLIEYVKKLRFORMKMVQTE--QOYTFVACTYELK : 270
dmPEZ_D1\g119920808 :-----EPLDIPRVIGQLRDRSDIIPSL--ADYKFLYNNLITVYK : 284
dmPTP69D_D2\g124663403 :-----CVDIKATTKRLSRORTGLINSY--ADYFLHRAILNYS : 286
dmCG7180_D1\g119921474 :-----ECFNVYGVYKLRQSRKLVENV--EYKFLYDTLEHHL : 288
dmPTP99A_D2\g117136638 :-----TANVYQVAKLVHNRKPGVWTS--EDIRVLYNLSFLPG : 269
dmCG7180_D2\g119921474 :-----EVDVYQAVKTVRRHRPQLVENM--TEKKCYDVLHYVYL : 296
dmCG9311_D1\g124664316 :-----LNTIDVNSRICACRQNSLRDSAIL--EYVFLVLCNAHNVL : 286
cePTP2_D1\g117535377 :-----LCPMDVYKMKVYRTRYSGLVQTE--QOYVFLYKALAFYK : 343
dmCSW_D1\g117137146 :-----DTEIDIQRTIQWVARSQMVQTE--ADYKFLYVAIAQHYIQ : 435
dmPTP-ER_D1\g124657148 :-----STEEYHNPTDSSSFTCNTIRHISHLDRDAEAVKTPPSFDRLPKMPD : 496
dmPTMEG_D1\g124654733 :-----EPVYPLDIVRTMRDORAMVQNV--DOYRFVCEALICAYM : 337
ceClr-1_D2\g125154084 :-----QR--LDVYQTVKGLQSHRPMF--TRFEVYRCEALADYSE : 295
dmCG14714_D1\g124646036 :-----RSVDIYQLVYVRRGRASAVQTK--EYVFLYKVASMYAA : 261

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