

PRDM9_homSap
 DKGHPNRSAISLPPGLRIGPSGIPQAGLGVWNEASDLPLGLHF~~G~~PYEGRITEDEEAANNGSWLITKGRNCYEV~~DGKDWSA~~NWMRYVNCARDDEEQNLVAFQYHRQIFYRTCRVIRPGCELLVWYGDEYGQELGIKWG
 SKWKKELMAGR
 PRDM9_panTroR.....P....S....Q.....S.....E.....S....S.....
 PRDM9_gorGorK.....
 PRDM9_ponAbeK.....W.....
 PRDM9_nomLeu G.....P.....W.....
 PRDM9_macMul E.....Q.....
 PRDM9_papHam N.....K.....
 PRDM7_homSapS.....S.....
 PRDM7_ponAbeT.....K.....
 PRDM7_calJacHA.....V.....SS.....
 PRDM7_micMurK.R.....E.....QV.....S.....D.....E.....Q.....
 PRDM7_otoGar E.....V...S.G.RT.....F.....Q.....QV.....S.....E.QG.....E.....
T.Q
 PRDM7_tupBelSL..V.....A.....E.....A.T.....Q.....S.....E.C.....
E.....S.WQ.E
 PRDM9_oryCunV.....E.....Q.E.....S.....R.....N.....K.....Q..K.....
E.T
 PRDM7_oryCunV.....E.....Q.E.....S.....R.....N.....K.....Q..K.....
E.T
 PRDM7_ochPriH.V.....S.....E.....TT.....QV.E..T.S.....R.....P.Q.....N.....AV.Q.....
E.T
 PRDM7_ratNorR.....H.V.....E.....V.....K.Q.....S.....Q.E.Q.....K.....R.....
M.GFT
 PRDM7_musMusR.....H.V.....S.....E.....V.....Q.....S.....Q.E.Q.....K.....
M.GFT
 PRDM7_musMolR.....H.V.....S.....E.....V.....Q.....S.....Q.E.Q.....K.....
M.GFT
 PRDM7_dipOrdYD.V.....RQ.S.E.....E.....Q.D..S..M.....V.....Q.....Y.....KA.....
R.T
 PRDM7_speTri N.D.S.H.T...L.....S.E.....T.....R.Q.....S.....E.Q.....
S...
 PRDM9_bosTau E...A...V.T...S.KL...E.....H.....Q.D.K..I.S.....S.....T.L.....HY.....G.....Q.V.....EK...CE
 .RG.SMFA...
 PRDM9_ovari E...A...T...S.RL...E.....H.....Q.D.K..V.S.....T.L.....L.QG.....Q.V.....D...RD
 .SG.S...A...
 PRDM9_munMun E...A...T...H..S.RL...D.....KV..A.....K.Q..DN.....S.A.....T.....G.....Q.V.....DF...RN
 .RG.S...A...
 PRDM7_turTru E.....T...S.R...E.....Q.....S.....T.....E.....V.....S.P...
 .G...SQ.V...
 PRDM7_lamPacT.....R.....E.....H.....QV.....S.....K.....Y.....
E.....S.WQ.E
 PRDM7_susScrT.....R.....E.....H.....QV.....S.....V.....
T.I
 PRDM7_felCat G.....T.....R.S.E.....T.....Q.....S.....N.....
S.ST.K
 PRDM7_ailMelQ.....T.....R.....Q.....S.....N.....E.....
S..A..K
 PRDM7_pteVamIR.....T.....E.....L.....QV.....S.....QG.....E.R.....
R.T...
 PRDM7_myolucA...T.....E.....EC..V..Y.....Q..AI..S.....T.Q.....V.K.....
E.....T.PV...
 PRDM7_equCabT..L...R...E.....Q.....S.....I.....V.....
R.T...
 PRDM7_sorAra A...S...T.H.....E...I.....Q..N.....S.....V.E.L.....Y.....I.K.....
S..T.DK
 PRDM9_loxAfrR...H..T.....S.K.....E.....QV..K..S.....K.....E.....E.....T.Q.D...
R...TS...
 PRDM7_choHof GQ.R.KH...V.....L...E.....QV.....T.S.....C.....A.....
T.EK
 PRDM9_homSap DKGHPNRSAISLPPGLRIGPSGIPQAGLGVWNEASDLPLGLHF~~G~~PYEGRITEDEEAANNGSWLITKGRNCYEV~~DGKDWSA~~NWMRYVVISREER~~EQNL~~LAFQHSER~~IY~~FACRD~~I~~RPGEWLRVWYSEDYMKRLHMSQETIH
 RNALAR
 PRDM11_panTro2
 PRDM11_rheMac2I.....
 PRDM11_papHamI.....
V.
 PRDM11_calJac1C.....

.....
PRDM11_otoGar1
M.....EA.....N.....I.....A.....R.....
.....
PRDM11_musMus.....AG.....I.....R.....
.....
PRDM11_ratNor.....EVG.....I.....V.....R.....
.....
PRDM11_dipOrd1.....S.....I.....R.....D.....R.....
.....G.....
PRDM11_cavPor3.....I.EAG.....I.....R.....
.....
PRDM11_speTril.....EA.....IS.....R.....G.....R.....
.Q...R.....
PRDM11_oryCun2.....L.QEA.....I.D.....R.....AA.....S.....Q.....N.H.....A.R.....
.G.....
PRDM11_ochPri2
M.A.....EA.....LSD.....H.....Q.R.....
.....
PRDM11_vicPac1
M.A.....EA.....LSD.....E.X.C.DPL.L.H.G.....V.....R.....
.....
PRDM11_bosTau4.....EA..N..I..R.....S.....R.....
.....
PRDM11_equCab2.....EA..N..I..T.....R.....
.....
PRDM11_canFam2.....EA..N..I.....R.....
.....H.....
PRDM11_myoLuc1.....L.....AN..N..I.....H.....
.....T.....
PRDM11_pteVaml.....A..N..SI.....S.....H.....R.....
.....
PRDM11_eriEur1.....V..EA.....I.....H.....S.....H.....R.....
.....
PRDM11_loxAfr3.....EA..N..IS.....V.....V.....R.....
.Q.....
PRDM11_echTel1
M.....EG..N..IS..T..LR.....Y.RN.....V.....C.....H.....R.....GQ.....
.....T.....
PRDM11_dasNov2.....EA..N..I.....S.....Q.....
.....V.....
PRDM11_homSap
VGIPDRAALTIPQGMEEVKDTSGESDVRCVNEVIPKGHIFGPYEGQISTQDKSAGFFSWLIVDKNNRYKSIDGSDETKANWMRYVVVISREEREQNLLAFQHSERIYFRACRDIRPGEWLRVWYSEDYMKRLHSMSQETIH
RNLAIR

PRDM4_homSap
ESRARLSLPKQLVRQSIVGAEVGWTGETIPVRTCFGPLIQQSHSMEVAEWTDKAVNHIWKIYHNGVLEFCITTTDENECNWMFVRKARNREEQNLVAPHDGKIFFFCTSQDIPPENELLFYYSRDYAQQI
PRDM4_panTro2.....
.....
PRDM4_ponAbe2.....A.....
.....
PRDM4_rheMac2.....
.....
PRDM4_papHam1.....
.....
PRDM4_calJac1.....R.....
.....
PRDM4_tarSyr1.....I.....H.....P..YN.F..N.....A.....
.....
PRDM4_micMurl.....H.....A.....V.....
.....
PRDM4_otoGar1.....
.....
PRDM4_musMus.....TD.....A.....L.....V.....T.....Y.....S.....
.....N.....
PRDM4_ratNor.....TD.....A.....S.V.....Y.....
.....
PRDM4_dipOrd1.....A.....YI.....T.....
.....M.....
PRDM4_cavPor3.....V..D..S.....G.....A.....R.....Y.....
.....M.....
PRDM4_oryCun2.....
.....
PRDM4_vicPac1.....
.....
PRDM4_turTril.....D.....S.....Y.....
.....
PRDM4_bosTau4.....D.....Y.....
.....
PRDM4_equCab2.....
.....
PRDM4_canFam2.....V.....Y.....
.....
PRDM4_myoLuc1.....
.....
PRDM4_pteVaml.....I.....Y.....
.....
PRDM4_loxAfr3.....D.....Y.....
.....
PRDM4_proCap1.....D.....S.....AA.....Y.....
.....
PRDM4_echTel1.....A.....V.....D.....N.F.....V..H.....H.....Y.....S.....
.....M.....
PRDM4_dasNov2.....P.....D.....SE.....V.....Y.....
.....
PRDM4_choHof1.....P.....F.....T..X.S..A.....D.....S.....A.....Y.....
.....

PRDM4_homSap
 ESRARSLPKQLVLRQSVGAEVGWTGETIPVRTCFGPFLIGQQSHSMEVAEWTDKAVNHIWKIYHNGVLEFCIITTDNECNWMMFVRKARNREEQNLVAYPHDGKIFFCTSQDIPPENELLFYYSRDYAAQI
 PRDM10_homSap
 LTRARA\$LPVLVYIDRFLGGVFSKRRIPKRTQFGPVEGPLVRGSELKDCYIH~~LKV~~SLDKGDRKERDLHEDLWFELSDETLCNWMMFVRPAQNHLEQNLVAYQYGHHVYYTTIKNVEPKQELKVWYAAASYAEFVNQKIHDI
 SEEKR
 PRDM10_panTro2D.....
 PRDM10_ponAbe2D.....
 PRDM10_papHam1D.....
 PRDM10_calJac1D.....
 PRDM10_micMurl1D.....
 PRDM10_otoGar1TD..A.....TR.....H..S.D..W.....
 PRDM10_tupBellD.....Q.....
 PRDM10_musMusD.....
 PRDM10_ratNorD.....
 PRDM10_dipOrd1D..N..D.....H.....
 PRDM10_cavPor3E..D.....S.....
 PRDM10_speTri1R.....
 PRDM10_oryCun2D.....
 PRDM10_ochPri2D.....
 PRDM10_turTru1E.....D.....
 PRDM10_bosTau4E.....D.....
 PRDM10_equCab2E.....D.....
 PRDM10_felCat3E.....E..D.....
 PRDM10_canFam2E.....D.....
 PRDM10_myoLuc1E.....D.....
 PRDM10_pteVam1E.....D.....E.....
 PRDM10_eriEur1E..E.....D.E.....Q.....
 PRDM10_loxAfr3E..E.....D.....
 PRDM10_proCap1E.....D.....
 PRDM10_dasNov2E.....D.....
 PRDM10_choHof1E.....D.....
 PRDM10_homSap
 LTRARA\$LPVLVYIDRFLGGVFSKRRIPKRTQFGPVEGPLVRGSELKDCYIH~~LKV~~SLDKGDRKERDLHEDLWFELSDETLCNWMMFVRPAQNHLEQNLVAYQYGHHVYYTTIKNVEPKQELKVWYAAASYAEFVNQKIHDI
 SEEKR
 PRDM15_homSap
 \$SSLPPNLIEIRRLLEDGAEGVFAITQLVKRTQFGPFESRRVAKWEKESAPPLKVFQKDGHPVCFDTSENDDCNWMMILVRPAEEAEHQNLTAYQHGSDVYFTTSRDIPPGTELRWVYAAFYAKKMDKPMLKQAGSGVH
 PRDM15_panTro2
 PRDM15_gorGor1
 PRDM15_ponAbe2
 PRDM15_rheMac2A.
 PRDM15_papHam1T.
 PRDM15_calJac1C.SA.
 PRDM15_tarSyr1C.SA.
 PRDM15_micMurl1CA.A.
 PRDM15_otoGar1C.S..
 PRDM15_musMusS..D..V.....L.PG.....K..A.....
 PRDM15_ratNorS..D..V.....L.PG.....K..A.....
 PRDM15_dipOrd1S..D..TV.....PG.....GH..C.....E
 PRDM15_cavPor3S..D..TV.....R.....PG.....F.Q.....C.....
 PRDM15_ngNG.
 PRDM15_ochPri2T..V.....Q.G..F.....A.....
 PRDM15_casaR..CASA.
 PRDM15_turTru1S..V.....PG.....F.....R.....
 PRDM15_cpLR..CP.L.
 PRDM15_bosTau4S..V.....PG.....F.....R.....
 PRDM15_equCab2S..V.....V.....A.....

.....C.S..
PRDM15_felCat3S.....L-.....V.....A.....
.....C..A.
PRDM15_canFam2S.....V.....VGP.....N.....A.....
.....C.P.A.
PRDM15_myoLuc1S.....V.....VGP.....D-.....
.....C.S..
PRDM15_pteVamlSS.....V.....V.....LAP.....F.....
.....CP..
PRDM15_loxAfr3S.....T.....V.....V.H.....QD.....
.....CA.A.
PRDM15_proCap1S.....T.....V.....V.H.....QD.....
.....CA..
PRDM15_echTel1S.....T.....V.....VDH.....QD.....
.....SA.T.
PRDM15_dasNov2S.....T.....V.R.R.....E.HG.....D.....A.....
.....C.AQ
PRDM15_homSap
SSLPNLEIRRLEDGAEGVFAITQLVKRTQFGPFESRRVAKWEKESAPPLKVFKQDGHPVCFTSNEDDCNWMMLVRPAAEAEHQNLAYQHGSVYFTTSRDI PPGTEBLRVWYAAFYAKKMDKPMLKQAGSGVH

PRDM6_homSap
TSSAAAAAPPPELPEWLRDLPREVCLCTSTVPGLAYGICAAQRIOQQGTWIGPFGVLLPPEKVQAGAVRNTQHLWEIYDQDGTLQHFIDGGEPSKS SWMRYIIRCARHCQEQNLT TVVQYRSNIFYRACIDI PRGTEELLVWY
NDS YTSFFGIPLOQCIQDEN
PRDM6_panTro2

PRDM6_gorGor1 ..S.....
.....
PRDM6_ponabe2S.....
.....
PRDM6_rheMac2

PRDM6_papHam1

PRDM6_calJac1

PRDM6_tarSyriC.....
.....
PRDM6_micMur1

PRDM6_tupBellT.....
.....S.....
PRDM6_musMusS.....T.V.....
.....
PRDM6_ratNorT.....
.....V.....
PRDM6_dipOrd1D.....
.....H.....
PRDM6_speTri1

PRDM6_oryCun2

PRDM6_ochPri2

PRDM6_turTrulT.....
.....
PRDM6_bosTau4

PRDM6_equCab2

PRDM6_felCat3

PRDM6_canFam2

PRDM6_myoLuc1 .G.....M.....
.....
PRDM6_pteVaml

PRDM6_eriEuri .T.S...A.R.....
.....
PRDM6_sorAralA.....T.L.....
.....
PRDM6_loxAfr3

PRDM6_dasNov2

PRDM6_choHof1

PRDM6_homSap
TSSAAAAAPPPELPEWLRDLPREVCLCTSTVPGLAYGICAAQRIOQQGTWIGPFGVLLPPEKVQAGAVRNTQHLWEIYDQDGTLQHFIDGGEPSKS SWMRYIIRCARHCQEQNLT TVVQYRSNIFYRACIDI PRGTEELLVWY
NDS YTSFFGIPLOQCIQDEN