```
                                                  20                                      40
hg        MAARLLLLGILLLLLPLPVPAPCHTAARSECKRSHKFVPGAWLAGE
PRF1_hgA  MAAWVLLLGILF-LLFPPVPAPCHTATQSECQQVHHLVPGVELAGE
PRF1_hgB  MATWVLLLGVLL-LLPPPVPAPCHTATRSKCQKIRHFVPGVELAGE
PRF1_hgC  MATRLLLLGIVL-LLPSPVPAPCRTATRSECQRAQHLVPGVELAGE
PRF1_hgD  MAAWVLPLGILL-LLPSPVPAPCHIAKGSECQRARRLVPGVELAGE
                          60                                      80
hg        GVDVTSLRRSGSFPVDTQRFLRPDGTCTLCENALQEGTLQRLPLAL
PRF1_hgA  GVDVTTLRRSGYFLVDRERLWRPDDTCTLCSSAQKPDTLWLLPVAF
PRF1_hgB  GVDVTTLRRSGYFLVDRKHFLRPDGTCTLCSSAQKPDTLWLLPVAF
PRF1_hgC  GVDVTTLQRLGYFLVDKKRILRPDGTCTLCSSTQKPGTLWLLPLAF
PRF1_hgD  GVDVTTLQRSGYILVDRKRLRRSDGTCTLCRNTQKPGSLWLLPLAF
                  100                                     120
hg        TNWRAQGSGCQRHVTRAKVSSTEAVARDAARSIRNDWKVGLDVTPK
PRF1_hgA  TDWHASGTGCRRQVTKTNIVSTEDMAKEVAKSITNNWKGGLNVTPK
PRF1_hgB  TDWRAQGAGCRHQVTKTNIISTEDMAKEVAKSITNDWKIGLDVTPK
PRF1_hgC  TDWRAQGLGCRRQVIKTNIASTEAVAREVAKSITNNWKIGLDLNTK
PRF1_hgD  TDWRAQGAACQRQVIKTNIVSTEGVANELAKSITNNWKLGLDVNVK
          140                             160                                     180
hg        PTSNVHVSVAGSHSQAANFAAQKTHQDQYSFSTDTVECRFYSFHVV
PRF1_hgA  PAVNVQVTLAGSHSKEANFAAEKAHQDNYVFSRDLVECHFYSFRVV
PRF1_hgB  PTINVKVTLAGSHSKAANFAAEKTHKDRYVFSRDLVECRFYSFRMV
PRF1_hgC  PIINMQVALAGSHSQAAKFAAEKTHQDQYSFSRDLVECRFYSFRMV
PRF1_hgD  PDSNTHVTMAGSHSKAANFAAEKTHQDQYSFSRDLVECRFYSFRVV
                                  200                                     220
hg        HTPPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGTHFIRAVELG
PRF1_hgA  HDPPLHPDFKRAIKDLPSHFNTSTESDYFRLISNYGTHFTRAVNLG
PRF1_hgB  HTPPLHPDFKRAIKDLPPYFNTSTEPNYLRLISNYGTHFTRAVNLG
PRF1_hgC  HAPPLHPDFKRAIKDLPPHLNTSTEPEYLRLISNYGTHFTRAVHLG
PRF1_hgD  HDPPLHPDFKRAIKDLPPHFNTSTEPDYFRLISNYGTHFTRAVHLG
                      240                                     260
hg        GRISALTALRTCELALEGLTDNEVEDCLTVEAQVNIGIHGSISAEA
PRF1_hgA  GQVSAITALRTCKLALKGLTTDEVSHCLDVEAALSIGGKSSNSEEV
PRF1_hgB  GQVSAITALRTCKLALKGLTTNEVSDCLEVEAALSIGGINRNSASA
PRF1_hgC  GQVSAITALRTCKLALEGLTTNEVSHCLDVEAALSIGGISSTSSEV
PRF1_hgD  GQVSAITALQTCKLALEGLSSNEVSDCLDTEAALSIGSIISSSSEV
          280                             300                                     320
hg        KACEEKKKKHKMTASFHQTYRERHSEVVGGHHTSINDLLFGIQAGP
PRF1_hgA  KACKKKKHQHNMTTNFHQVYSERYSEVIGGPHTSMPDLLFGAKAGP
PRF1_hgB  KVCDKMKEKHDMNSSFHQIYSERYSEVFGGHHTSISDLLFGANTGP
PRF1_hgC  KACKEKMRQHNMTASFHQVYSERYSEVTGGRSTSIPDLLFGTQAEP
PRF1_hgD  KACEEKKRQHKMTASFHQVYRERYSEVIGGHHTSMPDLLFGTQAGP
                                  340                                     360
hg        EQYSAWVNSLPGSPGLVDYTLEPLHVLLDSQDPRREALRRALSQYL
PRF1_hgA  EQFSTWLTSLQDYPGLVDYSLEPLHVLMNKKDPKREALRQAVSKYV
PRF1_hgB  EQFSTWIASLQDSPGLVDYSLEPLHVLLESKDPRREALRQAVSKYL
PRF1_hgC  KRFSTWMASLKDNPGLVGYTLEPLHMLLGNKNPQREALRQAVSKYV
PRF1_hgD  EQFTNWMTSLQDNPGLVDYSLEPLHILVKKENPRREALRRAVSKYV
                      380                                     400
hg        TDRARWRDCSRPCPPGRQKSPRDPCQCVCHGSAVTTQDCCPRQRGL
PRF1_hgA  MDRARWKDCNRPCPPGQLKNPHNPCQCMCVGSGSTNQDCCPREKGL
PRF1_hgB  NNRARWKDCNRPCPQGQWKNPHDPCQCVCPGSGSTNQDCCPRERGL
PRF1_hgC  MERARWNDCGRPCPPGQWKNPYNPCQCLCLSSAAINQNCCPREKGL
PRF1_hgD  RGRARWRNCSQSCPPGQWKNPRNPCQCMCPASGVTNQDCCPREKGL
          420                             440
hg        AQLEVTFIQAWGLWGDWFTATDAYVKLFFGGQELRTSTVWDNNNPI
PRF1_hgA  AELQVMNFQATDLRGDIVTSTDAYLKVFFGGKKQRTYTIWNNNNPT
PRF1_hgB  AQLKVMNFQATGLWGDIITATDAYLKVFFGRKEQRTNTIWNDDNPA
PRF1_hgC  ARLEVMNFQAKDLWGDNTTPTDAYLKIFFGGLEQRTNTVKNNNNPT
PRF1_hgD  AQLKVEKFQATGLWGDNTTPTDAYLKVFFGTREQRTNTVWNNNNPT
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460                                     480                                     500
hg          W S V R L D F G D V L L A T G G P L R L Q V W D Q D S G R D D D L L G T C D Q A P K S G S H
PRF1_hgA    W T A R L D F G D V Q L S T K E H L E V Q V W D E D F G W N D D L L G T C N E T V H S G T H
PRF1_hgB    W M I E L D F G D V C L S T T E Y L K V E V W D E N T I L K D K Q L G T C D L S P H S G T H
PRF1_hgC    W T T R L D F G D V H L S T A E H L K V E V W D A D A G W D D D L L G T C D L S P H S G T H
PRF1_hgD    W T I K L D F G D V R L S T A E H L K V E V W D A D Y G W D D D L L G V C D K A L H S G T H
                                        520                                     540
hg          E V R C N L N H G H L K F R Y H A R C L P H L G G G T C L D Y V P Q M L L G E P P G N R S G
PRF1_hgA    Q V N C K L S H G Q L R F Q Y Q A N C L P H L T G N T C Q E Y A P Q G Y L G E A P G N R S G
PRF1_hgB    Q V N C K L S H G Q L R F Q Y H A K C L P H L M G D T C Q E Y A S Q G L L G E P P G N R S G
PRF1_hgC    R V N C K L T H G Q L R F H Y H A R C L P H L M G D K C Q E Y G P P K A S G G S T R N P * -
PRF1_hgD    E V N C K L S H G Q L T F Q Y H A K C L P H L T G N T C R E Y A P Q K R L G E P P G N Q S G

hg          A V W -
PRF1_hgA    A V W *
PRF1_hgB    A V W *
PRF1_hgC    - - - -
PRF1_hgD    A V W *
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