```
Gracom Gcom scaffold8123 01 | PDZ.HG4.0:like:PDZD8 | NA |
                      •Aque Aqu2.1.33376 001 | PDZ.HG4.0:like:PDZD8 | NA |
                             •Dmel_FBtr0073590 | PDZ.HG4.1:PDZD8 | PDZD8 |
                  96
                                   •Tcas_TC004970_001 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                    -Tadh TriadT56130 | PDZ.HG4.1:PDZD8 | PDZD8 |
80
                                 100 - HoiH23 PIH23 010498-RA | PDZ.HG4.1:PDZD8 | PDZD8 |
                                Exapal XM 028662019.1 | PDZ.HG4.1:PDZD8 | PDZD8 |
                    78
                                         •Adig_XM_015923042.1 | PDZ.HG4.1:PDZD8 | PDZD8 |
           92
                                      -Spis_XP_022804078_1 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                   Nvec v1g244697 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                100 Nvec NVE22928 | PDZ.HG4.1:PDZD8 | PDZD8
                                        •Dgig XM 028549436.1 | PDZ.HG4.1:PDZD8 | PDZD8 |
                 61
                          38
                                                           -Gracom_Gcom_scaffold18889_01 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                           ·Scil_scict025594.1 | PDZ.HG4.1:PDZD8 | PDZD8 |
                     33
                                            Gracom Gcom scaffold10511 01 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                            •Emue Em0022g691a.t1 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                             •Tetwil g12694.t2 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                                   •Aque_Aqu2.1.34468_001 | PDZ.HG4.1:PDZD8 | PDZD8 |
                   42
                                       •Nemnom_g7360.t1 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                  Hvul g14410 1 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                       •Plajan Pjan scaffold12296 01 | PDZ.HG4.1:PDZD8 | PDZD8 |
                            73
                                              Ocar g4479 | PDZ.HG4.1:PDZD8 | PDZD8 |
                     51
                                         •Skow_XM_006818871.1 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                             •Spur_XM_786238.5 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                          •Cgig XM 011432009.3 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                        •Ctel gnl WGS AMQN CAPTEDRAFT mRNA228988 | PDZ.HG4.1:PDZD8 | PDZD8 |
                         68
                                       •Bralan_BLAG06000675_1 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                        •Drer_ENSDART00000122108 | PDZ.HG4.1:PDZD8 | PDZD8 |
                           98
                                           -Mmus_ENSMUST00000099274 | PDZ.HG4.1:PDZD8 | PDZD8 |
                                        <sup>1001</sup>•Hsap ENST00000334464 | PDZ.HG4.1:PDZD8 | PDZD8 |
                      •Aque Aqu2.1.27080 001 | PDZ.HG4.10:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                     -Hsap ENST00000307358 | PDZ.HG4.2:HTRA3 | HTRA3 |
                  100 - Mmus_ENSMUST00000087629 | PDZ.HG4.2:HTRA3 | HTRA3 |
               99
                     ·Drer_ENSDART00000182586 | PDZ.HG4.2:HTRA3 | HTRA3 |
                           •Drer ENSDART00000080563 | PDZ.HG4.2:HTRA3 | HTRA3 |
                     Drer ENSDART00000050542 | PDZ.HG4.4:HTRA4 | HTRA4 |
        79
                      •Mmus ENSMUST00000084031 | PDZ.HG4.4:HTRA4 | HTRA4 |
                       •Hsap_ENST00000302495 | PDZ.HG4.4:HTRA4 | HTRA4 |
           99
                  •Drer_ENSDART00000012318 | PDZ.HG4.11:like:HTRA1 | NA |
                      •Drer ENSDART00000048136 | PDZ.HG4.6:HTRA1 | HTRA1 |
               100
                       -Hsap ENST00000368984 | PDZ.HG4.6:HTRA1 | HTRA1 |
                    <sup>100</sup> •Mmus_ENSMUST00000006367 | PDZ.HG4.6:HTRA1 | HTRA1
                           Ocar_g6960 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                        Plajan_Pjan_scaffold1318_01 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                         Plajan Pjan scaffold1317 01 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                         Plajan Pjan scaffold1320 01 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                          Cint_ENSCINT00000035978 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
     77
                                             •Morvir_scaffold121.g27.t1 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
           13
                                                      •Spis_XP_022778123_1 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                         •Horcal Hcv1.av93.c3.g1277.i1 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                         •Coemet Cmet C597159 01 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                           Beraby_Baby_sb354484 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                           Bolinf_Binf_sb1217034 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                 99
                                              •Bolinf_Binf_sb1211430 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                              -Mlei ML2796.g21.i1 | PDZ.HG4.3:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                          •Dmel FBtr0082987 | PDZ.HG4.7:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                              •Tcas_TC003010_001 | PDZ.HG4.7:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                         56
                             <sub>"</sub>Spur_XM_001197113.4 | PDZ.HG4.7:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
               59
                          <sup>100</sup> Spur XM 030985930.1 | PDZ.HG4.7:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                  •Cgig XM 011456883.3 | PDZ.HG4.7:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                               Exapal XM 021049455.2 | PDZ.HG4.7:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                           Dgig_XM_028535491.1 | PDZ.HG4.8:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
           33
                               •Nemnom_g6104.t1 | PDZ.HG4.8:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                       99
               63
                                  •Morvir_scaffold325.g13.t1 | PDZ.HG4.8:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                              •Adig XM 015914445.1 | PDZ.HG4.8:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                  99
                       100
                                Spis XP 022785888 1 | PDZ.HG4.8:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                     98
                               •Exapal XM 021037715.2 | PDZ.HG4.8:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                       100
                               •Nvec NVE25829 | PDZ.HG4.8:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
             56
                               •Hhon q00858.t1 | PDZ.HG4.9:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                               •Tadh TriadT58565 | PDZ.HG4.9:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                          100
         42
                             <sup>100</sup>TrH2 TrispH2 006590-RA | PDZ.HG4.9:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                  Nemnom g9408.t1 | PDZ.HG4.9:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
               52
                         100
                                   •Morvir_scaffold141.g26.t1 | PDZ.HG4.9:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                                 •Aque Aqu2.1.28110 001 | PDZ.HG4.9:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                 69
                                    •Tetwil g6458.t1 | PDZ.HG4.9:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                          100
                                     •Emue_Em0020g921a.t1 | PDZ.HG4.9:like:HTRA1/HTRA2/HTRA3/HTRA4 | NA |
                     -Hsap_ENST00000258080 | PDZ.HG4.5:HTRA2 | HTRA2 |
                  100 Mmus_ENSMUST00000089645 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                             •Exapal_XM_021047731.2 | PDZ.HG4.5:HTRA2 | HTRA2 |
            80
                  Drer ENSDART00000142697 | PDZ.HG4.5:HTRA2 | HTRA2 |
               78
                    Drer_ENSDART00000140041 | PDZ.HG4.5:HTRA2 | HTRA2 |
                      <sup>72</sup>Drer ENSDART00000132116 | PDZ.HG4.5:HTRA2 | HTRA2 |
                            *Drer_ENSDART00000145985 | PDZ.HG4.5:HTRA2 | HTRA2 |
                              Drer_ENSDART00000102120 | PDZ.HG4.5:HTRA2 | HTRA2 |
                               Drer_ENSDART00000156317 | PDZ.HG4.5:HTRA2 | HTRA2 |
                              64 Drer_ENSDART00000137666 | PDZ.HG4.5:HTRA2 | HTRA2 |
                            *Drer_ENSDART00000144555 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                Drer ENSDART00000137255 | PDZ.HG4.5:HTRA2 | HTRA2 |
                              991 Drer_ENSDART00000158697 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                *Drer_ENSDART00000139861 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                 Drer_ENSDART00000109783 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                   Drer_ENSDART00000141146 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                     •Drer ENSDART00000131956 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                         Drer_ENSDART00000131612 | PDZ.HG4.5:HTRA2 | HTRA2
                                       98<sup>1</sup>Drer ENSDART00000131658 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                         •Drer ENSDART00000142597 | PDZ.HG4.5:HTRA2 | HTRA2
                                             Drer ENSDART00000135289 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                               Drer ENSDART00000138463 | PDZ.HG4.5:HTRA2 | HTRA2 |
                                             991 Drer ENSDART00000134520 | PDZ.HG4.5:HTRA2 | HTRA2 |
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