|  |  |  |
| --- | --- | --- |
| HLA alleles (4-digit resolution) | Counts | Missing rate |
| *A* | 2 | 0.023% |
| *C* | 7 | 0.081% |
| *B* | 13 | 0.150% |
| *DRB1* | 6 | 0.069% |
| *DQA1* | 4 | 0.046% |
| *DQB1* | 17 | 0.196% |
| *DPA1* | 10 | 0.116% |
| *DPB1* | 13 | 0.150% |

**Table S1.** The count and percentage of individuals having at least one missing allele at classical HLA loci (4-digit resolution).

**Table S2.** The count and percentage of individuals having at least one missing allele at classical HLA loci (2-digit resolution).

|  |  |  |
| --- | --- | --- |
| HLA alleles (2-digit resolution) | Counts | Missing rate |
| *A* | 4 | 0.046% |
| *C* | 4 | 0.046% |
| *B* | 6 | 0.069% |
| *DRB1* | 2 | 0.023% |
| *DQA1* | 0 | 0.000% |
| *DQB1* | 4 | 0.046% |
| *DPA1* | 3 | 0.035% |
| *DPB1* | 9 | 0.104% |

**Table S3.** The count and percentage of individuals having at least one missing allele at each amino acid residue.

|  |  |  |
| --- | --- | --- |
| HLA amino acid residues | Counts | Missing rate |
| *AA\_A\_-22* | 13 | 0.150% |
| *AA\_A\_-20* | 13 | 0.150% |
| *AA\_A\_-15* | 14 | 0.162% |
| *AA\_A\_-11* | 13 | 0.150% |
| *AA\_A\_-2* | 13 | 0.150% |
| *AA\_A\_9* | 0 | 0.000% |
| *AA\_A\_12* | 0 | 0.000% |
| *AA\_A\_17* | 0 | 0.000% |
| *AA\_A\_19* | 0 | 0.000% |
| *AA\_A\_31* | 0 | 0.000% |
| *AA\_A\_35* | 0 | 0.000% |
| *AA\_A\_43* | 0 | 0.000% |
| *AA\_A\_44* | 0 | 0.000% |
| *AA\_A\_56* | 0 | 0.000% |
| *AA\_A\_62* | 0 | 0.000% |
| *AA\_A\_63* | 1 | 0.012% |
| *AA\_A\_65* | 0 | 0.000% |
| *AA\_A\_66* | 0 | 0.000% |
| *AA\_A\_67* | 0 | 0.000% |
| *AA\_A\_70* | 0 | 0.000% |
| *AA\_A\_73* | 1 | 0.012% |
| *AA\_A\_74* | 1 | 0.012% |
| *AA\_A\_76* | 2 | 0.023% |
| *AA\_A\_77* | 2 | 0.023% |
| *AA\_A\_79* | 0 | 0.000% |
| *AA\_A\_80* | 0 | 0.000% |
| *AA\_A\_81* | 0 | 0.000% |
| *AA\_A\_82* | 0 | 0.000% |
| *AA\_A\_83* | 0 | 0.000% |
| *AA\_A\_90* | 0 | 0.000% |
| *AA\_A\_95* | 2 | 0.023% |
| *AA\_A\_97* | 2 | 0.023% |
| *AA\_A\_99* | 1 | 0.012% |
| *AA\_A\_102* | 0 | 0.000% |
| *AA\_A\_105* | 0 | 0.000% |
| *AA\_A\_107* | 0 | 0.000% |
| *AA\_A\_109* | 0 | 0.000% |
| *AA\_A\_114* | 4 | 0.046% |
| *AA\_A\_116* | 2 | 0.023% |
| *AA\_A\_127* | 0 | 0.000% |
| *AA\_A\_142* | 0 | 0.000% |
| *AA\_A\_144* | 1 | 0.012% |
| *AA\_A\_145* | 0 | 0.000% |
| *AA\_A\_149* | 0 | 0.000% |
| *AA\_A\_150* | 0 | 0.000% |
| *AA\_A\_151* | 0 | 0.000% |
| *AA\_A\_152* | 2 | 0.023% |
| *AA\_A\_156* | 1 | 0.012% |
| *AA\_A\_158* | 0 | 0.000% |
| *AA\_A\_161* | 0 | 0.000% |
| *AA\_A\_163* | 2 | 0.023% |
| *AA\_A\_166* | 0 | 0.000% |
| *AA\_A\_167* | 0 | 0.000% |
| *AA\_A\_171* | 0 | 0.000% |
| *AA\_A\_184* | 2 | 0.023% |
| *AA\_A\_186* | 1 | 0.012% |
| *AA\_A\_193* | 2 | 0.023% |
| *AA\_A\_194* | 2 | 0.023% |
| *AA\_A\_207* | 1 | 0.012% |
| *AA\_A\_245* | 2 | 0.023% |
| *AA\_A\_246* | 1 | 0.012% |
| *AA\_A\_253* | 2 | 0.023% |
| *AA\_A\_255* | 1 | 0.012% |
| *AA\_A\_268* | 1 | 0.012% |
| *AA\_A\_276* | 14 | 0.162% |
| *AA\_A\_282* | 14 | 0.162% |
| *AA\_A\_283* | 14 | 0.162% |
| *AA\_A\_288* | 14 | 0.162% |
| *AA\_A\_294* | 14 | 0.162% |
| *AA\_A\_297* | 14 | 0.162% |
| *AA\_A\_298* | 14 | 0.162% |
| *AA\_A\_299* | 13 | 0.150% |
| *AA\_A\_307* | 13 | 0.150% |
| *AA\_A\_310* | 14 | 0.162% |
| *AA\_A\_311* | 13 | 0.150% |
| *AA\_A\_314* | 14 | 0.162% |
| *AA\_A\_321* | 14 | 0.162% |
| *AA\_A\_334* | 12 | 0.139% |
| *AA\_C\_339* | 6 | 0.069% |
| *AA\_C\_326* | 6 | 0.069% |
| *AA\_C\_309* | 6 | 0.069% |
| *AA\_C\_308* | 6 | 0.069% |
| *AA\_C\_307* | 8 | 0.092% |
| *AA\_C\_306* | 8 | 0.092% |
| *AA\_C\_305* | 8 | 0.092% |
| *AA\_C\_304* | 10 | 0.116% |
| *AA\_C\_303* | 11 | 0.127% |
| *AA\_C\_295* | 11 | 0.127% |
| *AA\_C\_291* | 9 | 0.104% |
| *AA\_C\_289* | 9 | 0.104% |
| *AA\_C\_285* | 11 | 0.127% |
| *AA\_C\_284* | 9 | 0.104% |
| *AA\_C\_275* | 16 | 0.185% |
| *AA\_C\_273* | 3 | 0.035% |
| *AA\_C\_270* | 1 | 0.012% |
| *AA\_C\_267* | 3 | 0.035% |
| *AA\_C\_261* | 3 | 0.035% |
| *AA\_C\_253* | 3 | 0.035% |
| *AA\_C\_248* | 1 | 0.012% |
| *AA\_C\_219* | 7 | 0.081% |
| *AA\_C\_211* | 1 | 0.012% |
| *AA\_C\_194* | 2 | 0.023% |
| *AA\_C\_193* | 1 | 0.012% |
| *AA\_C\_184* | 2 | 0.023% |
| *AA\_C\_177* | 0 | 0.000% |
| *AA\_C\_173* | 0 | 0.000% |
| *AA\_C\_170* | 0 | 0.000% |
| *AA\_C\_163* | 1 | 0.012% |
| *AA\_C\_156* | 2 | 0.023% |
| *AA\_C\_152* | 1 | 0.012% |
| *AA\_C\_147* | 0 | 0.000% |
| *AA\_C\_143* | 0 | 0.000% |
| *AA\_C\_138* | 0 | 0.000% |
| *AA\_C\_116* | 16 | 0.185% |
| *AA\_C\_114* | 1 | 0.012% |
| *AA\_C\_113* | 0 | 0.000% |
| *AA\_C\_103* | 0 | 0.000% |
| *AA\_C\_99* | 3 | 0.035% |
| *AA\_C\_97* | 1 | 0.012% |
| *AA\_C\_95* | 2 | 0.023% |
| *AA\_C\_94* | 0 | 0.000% |
| *AA\_C\_91* | 0 | 0.000% |
| *AA\_C\_90* | 0 | 0.000% |
| *AA\_C\_80* | 0 | 0.000% |
| *AA\_C\_77* | 0 | 0.000% |
| *AA\_C\_73* | 0 | 0.000% |
| *AA\_C\_66* | 0 | 0.000% |
| *AA\_C\_49* | 0 | 0.000% |
| *AA\_C\_35* | 0 | 0.000% |
| *AA\_C\_24* | 0 | 0.000% |
| *AA\_C\_21* | 0 | 0.000% |
| *AA\_C\_16* | 0 | 0.000% |
| *AA\_C\_14* | 0 | 0.000% |
| *AA\_C\_11* | 0 | 0.000% |
| *AA\_C\_9* | 2 | 0.023% |
| *AA\_C\_6* | 0 | 0.000% |
| *AA\_C\_1* | 7 | 0.081% |
| *AA\_C\_-5* | 7 | 0.081% |
| *AA\_C\_-9* | 7 | 0.081% |
| *AA\_C\_-15* | 8 | 0.092% |
| *AA\_C\_-17* | 8 | 0.092% |
| *AA\_C\_-18* | 8 | 0.092% |
| *AA\_B\_325* | 20 | 0.231% |
| *AA\_B\_307* | 1 | 0.012% |
| *AA\_B\_305* | 3 | 0.035% |
| *AA\_B\_300* | 1 | 0.012% |
| *AA\_B\_299* | 1 | 0.012% |
| *AA\_B\_298* | 1 | 0.012% |
| *AA\_B\_296* | 1 | 0.012% |
| *AA\_B\_295* | 1 | 0.012% |
| *AA\_B\_282* | 5 | 0.058% |
| *AA\_B\_275* | 1 | 0.012% |
| *AA\_B\_270* | 0 | 0.000% |
| *AA\_B\_268* | 0 | 0.000% |
| *AA\_B\_267* | 0 | 0.000% |
| *AA\_B\_253* | 0 | 0.000% |
| *AA\_B\_245* | 0 | 0.000% |
| *AA\_B\_239* | 0 | 0.000% |
| *AA\_B\_211* | 0 | 0.000% |
| *AA\_B\_199* | 1 | 0.012% |
| *AA\_B\_194* | 1 | 0.012% |
| *AA\_B\_180* | 0 | 0.000% |
| *AA\_B\_178* | 0 | 0.000% |
| *AA\_B\_177* | 0 | 0.000% |
| *AA\_B\_171* | 0 | 0.000% |
| *AA\_B\_167* | 0 | 0.000% |
| *AA\_B\_166* | 0 | 0.000% |
| *AA\_B\_163* | 4 | 0.046% |
| *AA\_B\_162* | 0 | 0.000% |
| *AA\_B\_158* | 1 | 0.012% |
| *AA\_B\_156* | 2 | 0.023% |
| *AA\_B\_152* | 0 | 0.000% |
| *AA\_B\_147* | 0 | 0.000% |
| *AA\_B\_145* | 0 | 0.000% |
| *AA\_B\_143* | 0 | 0.000% |
| *AA\_B\_131* | 0 | 0.000% |
| *AA\_B\_116* | 16 | 0.185% |
| *AA\_B\_114* | 5 | 0.058% |
| *AA\_B\_113* | 1 | 0.012% |
| *AA\_B\_109* | 0 | 0.000% |
| *AA\_B\_103* | 0 | 0.000% |
| *AA\_B\_99* | 0 | 0.000% |
| *AA\_B\_97* | 2 | 0.023% |
| *AA\_B\_95* | 0 | 0.000% |
| *AA\_B\_94* | 0 | 0.000% |
| *AA\_B\_90* | 0 | 0.000% |
| *AA\_B\_83* | 0 | 0.000% |
| *AA\_B\_82* | 0 | 0.000% |
| *AA\_B\_81* | 0 | 0.000% |
| *AA\_B\_80* | 3 | 0.035% |
| *AA\_B\_77* | 2 | 0.023% |
| *AA\_B\_76* | 0 | 0.000% |
| *AA\_B\_74* | 0 | 0.000% |
| *AA\_B\_71* | 0 | 0.000% |
| *AA\_B\_70* | 0 | 0.000% |
| *AA\_B\_69* | 0 | 0.000% |
| *AA\_B\_67* | 3 | 0.035% |
| *AA\_B\_66* | 0 | 0.000% |
| *AA\_B\_65* | 0 | 0.000% |
| *AA\_B\_63* | 0 | 0.000% |
| *AA\_B\_62* | 0 | 0.000% |
| *AA\_B\_59* | 0 | 0.000% |
| *AA\_B\_52* | 0 | 0.000% |
| *AA\_B\_46* | 0 | 0.000% |
| *AA\_B\_45* | 2 | 0.023% |
| *AA\_B\_41* | 0 | 0.000% |
| *AA\_B\_32* | 0 | 0.000% |
| *AA\_B\_30* | 0 | 0.000% |
| *AA\_B\_24* | 0 | 0.000% |
| *AA\_B\_12* | 0 | 0.000% |
| *AA\_B\_11* | 0 | 0.000% |
| *AA\_B\_9* | 0 | 0.000% |
| *AA\_B\_4* | 0 | 0.000% |
| *AA\_B\_-8* | 0 | 0.000% |
| *AA\_B\_-10* | 0 | 0.000% |
| *AA\_B\_-11* | 0 | 0.000% |
| *AA\_B\_-16* | 0 | 0.000% |
| *AA\_B\_-21* | 0 | 0.000% |
| *AA\_B\_-23* | 0 | 0.000% |
| *AA\_DRB1\_233* | 632 | 7.305% |
| *AA\_DRB1\_231* | 631 | 7.293% |
| *AA\_DRB1\_189* | 632 | 7.305% |
| *AA\_DRB1\_181* | 416 | 4.808% |
| *AA\_DRB1\_180* | 416 | 4.808% |
| *AA\_DRB1\_166* | 3 | 0.035% |
| *AA\_DRB1\_149* | 4 | 0.046% |
| *AA\_DRB1\_142* | 3 | 0.035% |
| *AA\_DRB1\_140* | 4 | 0.046% |
| *AA\_DRB1\_133* | 3 | 0.035% |
| *AA\_DRB1\_120* | 4 | 0.046% |
| *AA\_DRB1\_112* | 4 | 0.046% |
| *AA\_DRB1\_104* | 4 | 0.046% |
| *AA\_DRB1\_98* | 4 | 0.046% |
| *AA\_DRB1\_96* | 3 | 0.035% |
| *AA\_DRB1\_86* | 0 | 0.000% |
| *AA\_DRB1\_85* | 0 | 0.000% |
| *AA\_DRB1\_78* | 0 | 0.000% |
| *AA\_DRB1\_77* | 0 | 0.000% |
| *AA\_DRB1\_74* | 5 | 0.058% |
| *AA\_DRB1\_73* | 0 | 0.000% |
| *AA\_DRB1\_71* | 16 | 0.185% |
| *AA\_DRB1\_70* | 4 | 0.046% |
| *AA\_DRB1\_67* | 7 | 0.081% |
| *AA\_DRB1\_60* | 3 | 0.035% |
| *AA\_DRB1\_58* | 2 | 0.023% |
| *AA\_DRB1\_57* | 5 | 0.058% |
| *AA\_DRB1\_47* | 0 | 0.000% |
| *AA\_DRB1\_40* | 0 | 0.000% |
| *AA\_DRB1\_38* | 2 | 0.023% |
| *AA\_DRB1\_37* | 4 | 0.046% |
| *AA\_DRB1\_33* | 0 | 0.000% |
| *AA\_DRB1\_32* | 0 | 0.000% |
| *AA\_DRB1\_31* | 0 | 0.000% |
| *AA\_DRB1\_30* | 0 | 0.000% |
| *AA\_DRB1\_28* | 1 | 0.012% |
| *AA\_DRB1\_26* | 21 | 0.243% |
| *AA\_DRB1\_25* | 0 | 0.000% |
| *AA\_DRB1\_16* | 0 | 0.000% |
| *AA\_DRB1\_14* | 0 | 0.000% |
| *AA\_DRB1\_13* | 1 | 0.012% |
| *AA\_DRB1\_12* | 0 | 0.000% |
| *AA\_DRB1\_11* | 0 | 0.000% |
| *AA\_DRB1\_10* | 1 | 0.012% |
| *AA\_DRB1\_9* | 0 | 0.000% |
| *AA\_DRB1\_4* | 16 | 0.185% |
| *AA\_DRB1\_-1* | 679 | 7.848% |
| *AA\_DRB1\_-16* | 679 | 7.848% |
| *AA\_DRB1\_-17* | 679 | 7.848% |
| *AA\_DRB1\_-24* | 679 | 7.848% |
| *AA\_DRB1\_-25* | 679 | 7.848% |
| *AA\_DQA1\_-16* | 0 | 0.000% |
| *AA\_DQA1\_11* | 0 | 0.000% |
| *AA\_DQA1\_18* | 0 | 0.000% |
| *AA\_DQA1\_25* | 0 | 0.000% |
| *AA\_DQA1\_26* | 0 | 0.000% |
| *AA\_DQA1\_34* | 0 | 0.000% |
| *AA\_DQA1\_40* | 0 | 0.000% |
| *AA\_DQA1\_41* | 0 | 0.000% |
| *AA\_DQA1\_45* | 0 | 0.000% |
| *AA\_DQA1\_47* | 0 | 0.000% |
| *AA\_DQA1\_48* | 0 | 0.000% |
| *AA\_DQA1\_50* | 0 | 0.000% |
| *AA\_DQA1\_51* | 0 | 0.000% |
| *AA\_DQA1\_52* | 1 | 0.012% |
| *AA\_DQA1\_53* | 1 | 0.012% |
| *AA\_DQA1\_54* | 0 | 0.000% |
| *AA\_DQA1\_55* | 0 | 0.000% |
| *AA\_DQA1\_56* | 5532 | 63.939% |
| *AA\_DQA1\_61* | 0 | 0.000% |
| *AA\_DQA1\_64* | 0 | 0.000% |
| *AA\_DQA1\_66* | 0 | 0.000% |
| *AA\_DQA1\_69* | 1 | 0.012% |
| *AA\_DQA1\_75* | 0 | 0.000% |
| *AA\_DQA1\_76* | 1 | 0.012% |
| *AA\_DQA1\_80* | 0 | 0.000% |
| *AA\_DQA1\_107* | 3 | 0.035% |
| *AA\_DQA1\_129* | 1 | 0.012% |
| *AA\_DQA1\_130* | 0 | 0.000% |
| *AA\_DQA1\_156* | 1 | 0.012% |
| *AA\_DQA1\_161* | 1 | 0.012% |
| *AA\_DQA1\_163* | 1 | 0.012% |
| *AA\_DQA1\_175* | 0 | 0.000% |
| *AA\_DQA1\_187* | 2 | 0.023% |
| *AA\_DQA1\_207* | 4 | 0.046% |
| *AA\_DQA1\_215* | 4 | 0.046% |
| *AA\_DQA1\_218* | 4 | 0.046% |
| *AA\_DQB1\_224* | 19 | 0.220% |
| *AA\_DQB1\_221* | 19 | 0.220% |
| *AA\_DQB1\_220* | 38 | 0.439% |
| *AA\_DQB1\_203* | 35 | 0.405% |
| *AA\_DQB1\_197* | 18 | 0.208% |
| *AA\_DQB1\_185* | 18 | 0.208% |
| *AA\_DQB1\_182* | 18 | 0.208% |
| *AA\_DQB1\_167* | 18 | 0.208% |
| *AA\_DQB1\_140* | 18 | 0.208% |
| *AA\_DQB1\_135* | 18 | 0.208% |
| *AA\_DQB1\_130* | 18 | 0.208% |
| *AA\_DQB1\_126* | 18 | 0.208% |
| *AA\_DQB1\_125* | 18 | 0.208% |
| *AA\_DQB1\_116* | 18 | 0.208% |
| *AA\_DQB1\_90* | 19 | 0.220% |
| *AA\_DQB1\_89* | 17 | 0.196% |
| *AA\_DQB1\_87* | 18 | 0.208% |
| *AA\_DQB1\_86* | 17 | 0.196% |
| *AA\_DQB1\_85* | 17 | 0.196% |
| *AA\_DQB1\_84* | 17 | 0.196% |
| *AA\_DQB1\_77* | 0 | 0.000% |
| *AA\_DQB1\_75* | 0 | 0.000% |
| *AA\_DQB1\_74* | 0 | 0.000% |
| *AA\_DQB1\_71* | 0 | 0.000% |
| *AA\_DQB1\_70* | 0 | 0.000% |
| *AA\_DQB1\_67* | 0 | 0.000% |
| *AA\_DQB1\_66* | 0 | 0.000% |
| *AA\_DQB1\_57* | 2 | 0.023% |
| *AA\_DQB1\_56* | 0 | 0.000% |
| *AA\_DQB1\_55* | 1 | 0.012% |
| *AA\_DQB1\_53* | 0 | 0.000% |
| *AA\_DQB1\_52* | 0 | 0.000% |
| *AA\_DQB1\_47* | 0 | 0.000% |
| *AA\_DQB1\_46* | 0 | 0.000% |
| *AA\_DQB1\_45* | 0 | 0.000% |
| *AA\_DQB1\_38* | 0 | 0.000% |
| *AA\_DQB1\_37* | 2 | 0.023% |
| *AA\_DQB1\_30* | 2 | 0.023% |
| *AA\_DQB1\_28* | 0 | 0.000% |
| *AA\_DQB1\_26* | 1 | 0.012% |
| *AA\_DQB1\_23* | 0 | 0.000% |
| *AA\_DQB1\_14* | 1 | 0.012% |
| *AA\_DQB1\_13* | 1 | 0.012% |
| *AA\_DQB1\_9* | 1 | 0.012% |
| *AA\_DQB1\_3* | 18 | 0.208% |
| *AA\_DQB1\_-4* | 636 | 7.351% |
| *AA\_DQB1\_-5* | 638 | 7.374% |
| *AA\_DQB1\_-6* | 636 | 7.351% |
| *AA\_DQB1\_-9* | 637 | 7.362% |
| *AA\_DQB1\_-10* | 636 | 7.351% |
| *AA\_DQB1\_-17* | 636 | 7.351% |
| *AA\_DQB1\_-18* | 636 | 7.351% |
| *AA\_DQB1\_-21* | 639 | 7.386% |
| *AA\_DQB1\_-27* | 637 | 7.362% |
| *AA\_DPA1\_228* | 21 | 0.243% |
| *AA\_DPA1\_190* | 20 | 0.231% |
| *AA\_DPA1\_160* | 21 | 0.243% |
| *AA\_DPA1\_127* | 20 | 0.231% |
| *AA\_DPA1\_111* | 21 | 0.243% |
| *AA\_DPA1\_96* | 20 | 0.231% |
| *AA\_DPA1\_83* | 0 | 0.000% |
| *AA\_DPA1\_73* | 0 | 0.000% |
| *AA\_DPA1\_72* | 0 | 0.000% |
| *AA\_DPA1\_66* | 0 | 0.000% |
| *AA\_DPA1\_50* | 0 | 0.000% |
| *AA\_DPA1\_31* | 0 | 0.000% |
| *AA\_DPA1\_28* | 0 | 0.000% |
| *AA\_DPA1\_18* | 0 | 0.000% |
| *AA\_DPA1\_11* | 0 | 0.000% |
| *AA\_DPB1\_8* | 0 | 0.000% |
| *AA\_DPB1\_9* | 5 | 0.058% |
| *AA\_DPB1\_11* | 0 | 0.000% |
| *AA\_DPB1\_33* | 0 | 0.000% |
| *AA\_DPB1\_35* | 2 | 0.023% |
| *AA\_DPB1\_36* | 0 | 0.000% |
| *AA\_DPB1\_55* | 8 | 0.092% |
| *AA\_DPB1\_56* | 0 | 0.000% |
| *AA\_DPB1\_57* | 0 | 0.000% |
| *AA\_DPB1\_65* | 0 | 0.000% |
| *AA\_DPB1\_69* | 6 | 0.069% |
| *AA\_DPB1\_72* | 0 | 0.000% |
| *AA\_DPB1\_76* | 2 | 0.023% |
| *AA\_DPB1\_84* | 0 | 0.000% |
| *AA\_DPB1\_85* | 0 | 0.000% |
| *AA\_DPB1\_86* | 0 | 0.000% |
| *AA\_DPB1\_87* | 0 | 0.000% |
| *AA\_DPB1\_91* | 0 | 0.000% |
| *AA\_DPB1\_96* | 6 | 0.069% |
| *AA\_DPB1\_170* | 6 | 0.069% |
| *AA\_DPB1\_178* | 4 | 0.046% |
| *AA\_DPB1\_194* | 1249 | 14.436% |
| *AA\_DPB1\_205* | 1248 | 14.424% |
| *AA\_DPB1\_215* | 1245 | 14.390% |