

Supplemental Table 1. European Ancestry Informative Markers^A

| rs number | EUROset1 ^B | EUROset2 | NORTHset1 | NORTHset2 ^C | SOUTH | NS | Chr | BP |
|------------|-----------------------|----------|-----------|------------------------|-------|----|-----|-----------|
| rs10000869 | 1 | 1 | | | 1 | | 4 | 186576443 |
| rs1000321 | 1 | 1 | 1 | 1 | | | 19 | 59738299 |
| rs10004939 | 1 | 1 | | | 1 | | 4 | 126868469 |
| rs10008492 | 1 | 1 | 1 | 1 | 1 | | 4 | 38442115 |
| rs10010346 | 1 | 1 | | | 1 | | 4 | 91987138 |
| rs1001262 | 1 | 1 | | | 1 | | 5 | 179740232 |
| rs10016081 | 1 | 1 | 1 | 1 | | | 4 | 88859088 |
| rs10016411 | 1 | 1 | 1 | 1 | | | 4 | 4613817 |
| rs10017875 | 1 | 1 | 1 | 1 | | | 4 | 33916424 |
| rs1001935 | 1 | 1 | 1 | 1 | 1 | | 5 | 75075936 |
| rs10020480 | 1 | 1 | 1 | 1 | | | 4 | 34795406 |
| rs10032784 | 1 | 1 | 1 | 1 | 1 | | 4 | 190505753 |
| rs1003549 | 1 | 1 | 1 | 1 | 1 | | 7 | 35262016 |
| rs1003921 | | 1 | | 1 | | | 11 | 17756912 |
| rs10045343 | 1 | 1 | 1 | 1 | | | 5 | 111274626 |
| rs1004644 | | 1 | | 1 | | | 3 | 29266052 |
| rs10047997 | 1 | 1 | 1 | 1 | | | 15 | 22657843 |
| rs10061271 | 1 | 1 | 1 | 1 | | | 5 | 104196324 |
| rs10063082 | 1 | 1 | 1 | 1 | | | 5 | 24264954 |
| rs10068809 | | 1 | | 1 | | | 5 | 58456103 |
| rs10068902 | 1 | 1 | 1 | 1 | | | 5 | 133129405 |
| rs1007018 | 1 | 1 | 1 | 1 | | | 11 | 132454683 |
| rs1007042 | 1 | 1 | 1 | 1 | | | 10 | 70286979 |
| rs10077241 | 1 | 1 | 1 | 1 | | | 5 | 85451555 |
| rs10083961 | 1 | 1 | 1 | 1 | | | 18 | 60317371 |
| rs1008461 | 1 | 1 | 1 | 1 | | | 6 | 13326528 |
| rs1008645 | 1 | 1 | 1 | 1 | | | 2 | 125873717 |
| rs1009473 | 1 | 1 | 1 | 1 | 1 | | 9 | 137917133 |
| rs10095717 | 1 | 1 | 1 | 1 | | | 8 | 101940358 |
| rs1009638 | | 1 | | 1 | | | 11 | 3134640 |
| rs10097270 | 1 | 1 | 1 | 1 | | | 8 | 29284160 |
| rs1009728 | 1 | 1 | 1 | 1 | | | 17 | 35862733 |
| rs10100409 | 1 | 1 | | | 1 | | 8 | 29138884 |
| rs1010656 | 1 | 1 | 1 | 1 | | | 3 | 150887016 |
| rs1010779 | 1 | 1 | 1 | 1 | | | 7 | 68076890 |
| rs10108974 | 1 | 1 | 1 | 1 | | | 8 | 77588928 |
| rs1010949 | | 1 | | 1 | | | 5 | 71335991 |
| rs10109510 | | 1 | | 1 | | | 8 | 65044623 |
| rs1011088 | 1 | 1 | | | 1 | | 6 | 4426420 |
| rs10112398 | 1 | 1 | 1 | 1 | | | 8 | 93864228 |
| rs1011470 | 1 | 1 | | | 1 | | 2 | 171167244 |
| rs10118378 | 1 | 1 | 1 | 1 | | | 9 | 108463023 |
| rs1012769 | 1 | 1 | 1 | 1 | | | 22 | 26306203 |
| rs10128640 | 1 | 1 | 1 | 1 | | | 11 | 89726601 |
| rs10132 | 1 | 1 | 1 | 1 | | | 17 | 53523370 |
| rs10132585 | 1 | 1 | | | 1 | | 14 | 22399286 |
| rs10138962 | 1 | 1 | | | 1 | | 14 | 104066938 |
| rs1014136 | | 1 | | 1 | | | 7 | 38195632 |
| rs10143058 | 1 | 1 | 1 | 1 | | | 14 | 56904596 |
| rs10143977 | 1 | 1 | 1 | 1 | | | 14 | 95796636 |

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|------------|---|---|---|---|---|----|-----------|
| rs10148024 | 1 | 1 | 1 | 1 | | 14 | 28729886 |
| rs10152962 | 1 | 1 | 1 | 1 | | 15 | 92112175 |
| rs10154899 | 1 | 1 | 1 | 1 | | 3 | 105245144 |
| rs10155062 | | 1 | | 1 | | 4 | 7184806 |
| rs10158939 | 1 | 1 | 1 | 1 | | 1 | 240289966 |
| rs10159191 | 1 | 1 | 1 | 1 | | 1 | 189587809 |
| rs1016173 | 1 | 1 | 1 | 1 | | 21 | 21665674 |
| rs10162946 | 1 | 1 | 1 | 1 | | 15 | 21689398 |
| rs1016315 | | 1 | | 1 | | 10 | 131742295 |
| rs10163400 | 1 | 1 | 1 | 1 | | 16 | 6783832 |
| rs10166127 | 1 | 1 | 1 | 1 | | 2 | 240710414 |
| rs10166397 | | 1 | | 1 | | 2 | 44226413 |
| rs10168477 | 1 | 1 | 1 | 1 | | 2 | 6247900 |
| rs1017104 | 1 | 1 | 1 | 1 | | 7 | 89881118 |
| rs10171287 | 1 | 1 | 1 | 1 | | 2 | 150437699 |
| rs1017366 | 1 | 1 | 1 | 1 | | 2 | 134001727 |
| rs10174149 | 1 | 1 | | | 1 | 2 | 180767679 |
| rs10174187 | 1 | 1 | 1 | 1 | | 2 | 129917395 |
| rs10175679 | 1 | 1 | | | 1 | 2 | 76572272 |
| rs10183349 | | 1 | | 1 | | 2 | 50686339 |
| rs10188692 | 1 | 1 | | | 1 | 2 | 190180421 |
| rs10189499 | 1 | 1 | 1 | 1 | 1 | 2 | 203458294 |
| rs10189760 | 1 | 1 | 1 | 1 | 1 | 2 | 223552138 |
| rs10193032 | | 1 | | 1 | | 2 | 73905120 |
| rs10195135 | 1 | 1 | 1 | 1 | | 2 | 204689162 |
| rs10196343 | 1 | 1 | 1 | 1 | | 2 | 232512604 |
| rs10197026 | 1 | 1 | 1 | 1 | | 2 | 53076982 |
| rs1020042 | 1 | 1 | 1 | 1 | | 3 | 29310050 |
| rs10205008 | 1 | 1 | 1 | 1 | 1 | 2 | 28618813 |
| rs10209427 | 1 | 1 | 1 | 1 | | 2 | 194423573 |
| rs10219237 | | 1 | | 1 | | 11 | 73617782 |
| rs10230087 | 1 | 1 | 1 | 1 | | 7 | 114041643 |
| rs10231280 | | 1 | | 1 | | 7 | 108939799 |
| rs1023331 | 1 | 1 | 1 | 1 | 1 | 10 | 97756527 |
| rs10235162 | 1 | 1 | 1 | 1 | | 7 | 114625356 |
| rs10242548 | | 1 | | 1 | | 7 | 107249385 |
| rs10248051 | 1 | 1 | 1 | 1 | | 7 | 51086847 |
| rs10249706 | 1 | 1 | 1 | 1 | | 7 | 45727876 |
| rs1025229 | | 1 | | 1 | | 8 | 18856300 |
| rs10260109 | 1 | 1 | | | 1 | 7 | 14822880 |
| rs10267453 | 1 | 1 | 1 | 1 | 1 | 7 | 14099830 |
| rs1026804 | 1 | 1 | 1 | 1 | 1 | 8 | 81680875 |
| rs1027003 | | 1 | | 1 | | 2 | 108090183 |
| rs10274985 | 1 | 1 | | | 1 | 7 | 8566394 |
| rs10275986 | | 1 | | 1 | | 7 | 13221452 |
| rs10276486 | | 1 | | 1 | | 7 | 88546439 |
| rs1027841 | 1 | 1 | 1 | 1 | | 4 | 146988524 |
| rs10279772 | 1 | 1 | 1 | 1 | | 7 | 38672909 |
| rs1028378 | 1 | 1 | | | 1 | 6 | 148875711 |
| rs1030278 | 1 | 1 | 1 | 1 | | 2 | 38288745 |
| rs1031757 | 1 | 1 | 1 | 1 | | 6 | 2667343 |
| rs1033470 | | 1 | | 1 | | 20 | 9673697 |

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| rs1035218 | 1 | 1 | 1 | 1 | | 7 | 35502455 |
| rs10357 | 1 | 1 | 1 | 1 | | 12 | 132010684 |
| rs1036295 | 1 | 1 | 1 | 1 | | 2 | 47036268 |
| rs1037996 | 1 | 1 | 1 | 1 | | 12 | 77839519 |
| rs1038638 | 1 | 1 | | | 1 | 7 | 130011632 |
| rs1039440 | 1 | 1 | 1 | 1 | | 5 | 50536385 |
| rs1039621 | 1 | 1 | 1 | 1 | | 7 | 158321830 |
| rs1040002 | | 1 | | 1 | | 12 | 75472491 |
| rs10401677 | 1 | 1 | 1 | 1 | 1 | 19 | 37752960 |
| rs10403583 | 1 | 1 | 1 | 1 | | 19 | 43983611 |
| rs10405617 | 1 | 1 | 1 | 1 | | 19 | 10613968 |
| rs10411991 | 1 | 1 | | | 1 | 19 | 621828 |
| rs1041200 | 1 | 1 | 1 | 1 | 1 | 20 | 10927521 |
| rs10415488 | | 1 | | 1 | | 19 | 5197717 |
| rs10415765 | | 1 | | 1 | | 19 | 18309105 |
| rs10416265 | 1 | 1 | | | 1 | 19 | 38297140 |
| rs10417470 | 1 | 1 | | | 1 | 19 | 36896151 |
| rs10419661 | 1 | 1 | 1 | 1 | | 19 | 51965108 |
| rs10420331 | | 1 | | 1 | | 19 | 59160880 |
| rs10422784 | 1 | 1 | | | 1 | 19 | 13005062 |
| rs10428822 | 1 | 1 | 1 | 1 | 1 | 6 | 166523755 |
| rs10431150 | 1 | 1 | 1 | 1 | | 11 | 70644511 |
| rs10433559 | 1 | 1 | 1 | 1 | | 3 | 17740963 |
| rs1044581 | 1 | 1 | | | 1 | 15 | 71793744 |
| rs10447098 | 1 | 1 | 1 | 1 | | 5 | 60866890 |
| rs10458890 | | 1 | | 1 | | 11 | 25765193 |
| rs10468473 | 1 | 1 | 1 | 1 | | 17 | 12068401 |
| rs1047268 | 1 | 1 | | | 1 | 17 | 30701608 |
| rs10473901 | 1 | 1 | | | 1 | 5 | 85435415 |
| rs10478046 | 1 | 1 | 1 | 1 | 1 | 5 | 110741382 |
| rs1047966 | 1 | 1 | 1 | 1 | | 17 | 4939931 |
| rs10483323 | | 1 | | 1 | | 14 | 26354562 |
| rs10483447 | 1 | 1 | | | 1 | 14 | 33018997 |
| rs10483452 | | 1 | | 1 | | 14 | 34626249 |
| rs10483568 | 1 | 1 | 1 | 1 | | 14 | 47056337 |
| rs10483804 | 1 | 1 | 1 | 1 | | 14 | 67286804 |
| rs10484053 | | 1 | | 1 | | 14 | 95081398 |
| rs10484238 | | 1 | | 1 | | 14 | 43422032 |
| rs10484854 | 1 | 1 | 1 | 1 | | 6 | 38772572 |
| rs10484867 | 1 | 1 | 1 | 1 | | 6 | 98439288 |
| rs10485092 | 1 | 1 | 1 | 1 | | 6 | 84864397 |
| rs10485497 | 1 | 1 | | | 1 | 20 | 29933631 |
| rs10485678 | 1 | 1 | 1 | 1 | | 20 | 39096743 |
| rs10486011 | 1 | 1 | 1 | 1 | | 7 | 97319748 |
| rs10486014 | 1 | 1 | 1 | 1 | | 7 | 106017537 |
| rs10486207 | | 1 | | 1 | | 7 | 8077305 |
| rs10486461 | 1 | 1 | 1 | 1 | | 7 | 26483612 |
| rs10488211 | 1 | 1 | | | 1 | 7 | 132203858 |
| rs10488500 | 1 | 1 | 1 | 1 | | 7 | 76679195 |
| rs10488695 | 1 | 1 | | | 1 | 11 | 113518301 |
| rs10489461 | 1 | 1 | 1 | 1 | | 1 | 54061608 |
| rs10489671 | 1 | 1 | | | 1 | 1 | 155805349 |

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| rs10490073 | 1 | 1 | | | 1 | 2 | 150168116 |
| rs10490656 | 1 | 1 | 1 | 1 | | 2 | 37085212 |
| rs10490757 | 1 | 1 | | | 1 | 2 | 217834481 |
| rs10491030 | 1 | 1 | 1 | 1 | | 10 | 130690227 |
| rs10491120 | 1 | 1 | 1 | 1 | | 17 | 32062557 |
| rs10491367 | 1 | 1 | 1 | 1 | | 5 | 54239231 |
| rs10492467 | 1 | 1 | 1 | 1 | | 13 | 70639393 |
| rs10493152 | 1 | 1 | | | 1 | 1 | 50901365 |
| rs10493277 | 1 | 1 | | | 1 | 1 | 60279332 |
| rs10493621 | 1 | 1 | 1 | 1 | | 1 | 79292015 |
| rs10493649 | 1 | 1 | 1 | 1 | 1 | 1 | 79980647 |
| rs10493770 | 1 | 1 | 1 | 1 | | 1 | 85807452 |
| rs10494083 | 1 | 1 | 1 | 1 | | 1 | 108249725 |
| rs10494572 | 1 | 1 | | | 1 | 1 | 182250203 |
| rs10494878 | 1 | 1 | 1 | 1 | 1 | 1 | 204982432 |
| rs10495592 | 1 | 1 | | | 1 | 2 | 12165935 |
| rs1049598 | | 1 | | 1 | | 15 | 38937116 |
| rs10495988 | 1 | 1 | 1 | 1 | | 2 | 50009439 |
| rs10496131 | 1 | 1 | | | 1 | 2 | 66156377 |
| rs10496342 | 1 | 1 | 1 | 1 | | 2 | 99777076 |
| rs10496354 | 1 | 1 | 1 | 1 | | 2 | 101614513 |
| rs10496557 | 1 | 1 | 1 | 1 | | 2 | 119603905 |
| rs10496615 | 1 | 1 | | | 1 | 2 | 123995938 |
| rs10496860 | 1 | 1 | | | 1 | 2 | 141387720 |
| rs10496905 | | 1 | | 1 | | 2 | 142352930 |
| rs10496954 | 1 | 1 | 1 | 1 | | 2 | 144386056 |
| rs10497257 | | 1 | | 1 | | 2 | 165739074 |
| rs10498303 | | 1 | | 1 | | 14 | 28974819 |
| rs10498377 | 1 | 1 | 1 | 1 | | 14 | 42482338 |
| rs10498454 | 1 | 1 | | | 1 | 14 | 53308747 |
| rs10499100 | | 1 | | 1 | | 6 | 121250044 |
| rs10499602 | 1 | 1 | | | 1 | 7 | 38553497 |
| rs10499748 | 1 | 1 | 1 | 1 | | 7 | 54694309 |
| rs10500003 | 1 | 1 | | | 1 | 7 | 110269989 |
| rs10500130 | 1 | 1 | | | 1 | 7 | 138466453 |
| rs10500812 | 1 | 1 | 1 | 1 | | 11 | 15232135 |
| rs10500956 | 1 | 1 | 1 | 1 | | 11 | 23435031 |
| rs10501082 | 1 | 1 | 1 | 1 | | 11 | 27227554 |
| rs10501128 | 1 | 1 | | | 1 | 11 | 33669411 |
| rs10501445 | 1 | 1 | 1 | 1 | | 11 | 78876638 |
| rs10501518 | 1 | 1 | 1 | 1 | | 11 | 80884912 |
| rs10502232 | | 1 | | 1 | | 11 | 119295278 |
| rs10502335 | | 1 | | 1 | | 18 | 5894333 |
| rs10502693 | 1 | 1 | | | 1 | 18 | 34299710 |
| rs10503068 | 1 | 1 | 1 | 1 | | 18 | 58102113 |
| rs10503767 | 1 | 1 | | | 1 | 8 | 24979173 |
| rs10504180 | 1 | 1 | 1 | 1 | | 8 | 56163454 |
| rs10504268 | 1 | 1 | 1 | 1 | | 8 | 59989174 |
| rs10504705 | | 1 | | 1 | | 8 | 80398017 |
| rs10505505 | 1 | 1 | 1 | 1 | | 8 | 128808953 |
| rs10505550 | 1 | 1 | | | 1 | 8 | 131597332 |
| rs10506138 | | 1 | | 1 | | 12 | 38598763 |

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|------------|---|---|---|---|---|----|-----------|
| rs10506479 | 1 | 1 | 1 | 1 | | 12 | 64826291 |
| rs10506554 | 1 | 1 | | | 1 | 12 | 66195266 |
| rs10506701 | | 1 | | 1 | | 12 | 72872477 |
| rs10508738 | 1 | 1 | | | 1 | 10 | 28711650 |
| rs10509506 | 1 | 1 | 1 | 1 | | 10 | 86803736 |
| rs10509543 | 1 | 1 | 1 | 1 | | 10 | 90062332 |
| rs10509631 | 1 | 1 | 1 | 1 | | 10 | 93355411 |
| rs10509826 | 1 | 1 | 1 | 1 | 1 | 10 | 108794830 |
| rs10510127 | 1 | 1 | | | 1 | 10 | 125006421 |
| rs10510254 | 1 | 1 | 1 | 1 | | 3 | 3254498 |
| rs10510268 | 1 | 1 | 1 | 1 | 1 | 3 | 3539506 |
| rs10510771 | 1 | 1 | | | 1 | 3 | 54696095 |
| rs10511715 | 1 | 1 | 1 | 1 | 1 | 9 | 23069238 |
| rs10511771 | 1 | 1 | 1 | 1 | | 9 | 26288134 |
| rs10511802 | | 1 | | 1 | | 9 | 27158315 |
| rs10512144 | 1 | 1 | 1 | 1 | | 9 | 85941612 |
| rs10512445 | 1 | 1 | | | 1 | 17 | 28877187 |
| rs10513729 | 1 | 1 | 1 | 1 | 1 | 3 | 176163941 |
| rs10513798 | 1 | 1 | | | 1 | 3 | 185971610 |
| rs10513865 | 1 | 1 | 1 | 1 | | 3 | 192571579 |
| rs10514007 | | 1 | | 1 | | 18 | 67147359 |
| rs10514129 | 1 | 1 | 1 | 1 | | 18 | 70187838 |
| rs10515046 | 1 | 1 | 1 | 1 | | 17 | 49129918 |
| rs10515351 | | 1 | | 1 | | 5 | 104554013 |
| rs10515421 | 1 | 1 | 1 | 1 | | 5 | 110518996 |
| rs10515441 | 1 | 1 | 1 | 1 | | 5 | 111563400 |
| rs10515998 | 1 | 1 | 1 | 1 | | 18 | 61521202 |
| rs10516047 | 1 | 1 | | | 1 | 5 | 167868597 |
| rs10516487 | 1 | 1 | 1 | 1 | | 4 | 102970099 |
| rs1051669 | | 1 | | 1 | | 12 | 892713 |
| rs10517060 | | 1 | | 1 | | 4 | 24538378 |
| rs10517660 | 1 | 1 | 1 | 1 | 1 | 4 | 158061846 |
| rs10517677 | 1 | 1 | 1 | 1 | | 4 | 158949630 |
| rs10517796 | 1 | 1 | 1 | 1 | | 4 | 165130039 |
| rs10517919 | | 1 | | 1 | | 4 | 168199023 |
| rs10518452 | 1 | 1 | 1 | 1 | | 4 | 125993264 |
| rs10518627 | 1 | 1 | 1 | 1 | | 4 | 134033982 |
| rs10518651 | | 1 | | 1 | | 1 | 81339930 |
| rs10519005 | 1 | 1 | 1 | 1 | 1 | 15 | 57498983 |
| rs10519193 | | 1 | | 1 | | 15 | 46950245 |
| rs10519198 | 1 | 1 | | | 1 | 15 | 76529809 |
| rs10519201 | 1 | 1 | 1 | 1 | | 15 | 47008883 |
| rs10519410 | 1 | 1 | 1 | 1 | 1 | 4 | 138354031 |
| rs10519465 | | 1 | | 1 | | 4 | 139570675 |
| rs10519510 | 1 | 1 | 1 | 1 | | 5 | 116835987 |
| rs10519758 | | 1 | | 1 | | 15 | 30938780 |
| rs10520392 | 1 | 1 | 1 | 1 | | 4 | 178863374 |
| rs10520656 | 1 | 1 | 1 | 1 | | 15 | 85910263 |
| rs10521057 | 1 | 1 | 1 | 1 | | 9 | 103364366 |
| rs10521434 | | 1 | | 1 | | 9 | 71638815 |
| rs1052990 | 1 | 1 | | | 1 | 7 | 115935606 |
| rs1053815 | 1 | 1 | | | 1 | 11 | 95349638 |

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|------------|---|---|---|---|---|----|-----------|
| rs1056198 | | 1 | | 1 | | 20 | 47989636 |
| rs10605 | | 1 | | 1 | | 7 | 7885167 |
| rs1061837 | 1 | 1 | | | 1 | 5 | 150541530 |
| rs1062190 | | 1 | | 1 | | 10 | 22903497 |
| rs1062213 | 1 | 1 | 1 | 1 | | 7 | 4118615 |
| rs10711 | 1 | 1 | 1 | 1 | | 10 | 62224480 |
| rs10733333 | 1 | 1 | 1 | 1 | | 9 | 16893446 |
| rs1073368 | | 1 | | 1 | | 11 | 44005261 |
| rs10739277 | 1 | 1 | 1 | 1 | 1 | 9 | 111091779 |
| rs10741808 | 1 | 1 | 1 | 1 | | 11 | 19977460 |
| rs10743585 | | 1 | | 1 | | 12 | 26486215 |
| rs10745776 | 1 | 1 | | | 1 | 12 | 95902258 |
| rs10745793 | 1 | 1 | 1 | 1 | | 12 | 96286201 |
| rs10746763 | 1 | 1 | 1 | 1 | 1 | 9 | 87321377 |
| rs10750140 | | 1 | | 1 | | 11 | 118828494 |
| rs10753415 | 1 | 1 | 1 | 1 | | 1 | 224452246 |
| rs10757554 | | 1 | | 1 | | 9 | 25566545 |
| rs10758823 | 1 | 1 | 1 | 1 | 1 | 9 | 7078043 |
| rs10760423 | 1 | 1 | | | 1 | 9 | 128059069 |
| rs1076105 | 1 | 1 | | | 1 | 22 | 16062165 |
| rs10761660 | 1 | 1 | 1 | 1 | | 10 | 64186312 |
| rs1076513 | 1 | 1 | 1 | 1 | | 19 | 38869427 |
| rs1076653 | | 1 | | 1 | | 22 | 34255861 |
| rs1076971 | | 1 | | 1 | | 18 | 39019234 |
| rs10770437 | 1 | 1 | 1 | 1 | 1 | 12 | 19190657 |
| rs10776798 | 1 | 1 | 1 | 1 | 1 | 1 | 115663777 |
| rs10777342 | 1 | 1 | 1 | 1 | | 12 | 90781264 |
| rs10777483 | 1 | 1 | 1 | 1 | | 12 | 92126131 |
| rs10778827 | | 1 | | 1 | | 12 | 80629514 |
| rs10780514 | 1 | 1 | 1 | 1 | | 9 | 83217806 |
| rs10780596 | 1 | 1 | 1 | 1 | | 9 | 85150660 |
| rs10783028 | 1 | 1 | 1 | 1 | | 1 | 96142798 |
| rs1078982 | 1 | 1 | 1 | 1 | | 3 | 124307730 |
| rs10792322 | 1 | 1 | 1 | 1 | | 11 | 61518128 |
| rs1079348 | | 1 | | 1 | | 16 | 8780957 |
| rs10794324 | 1 | 1 | 1 | 1 | | 11 | 418489 |
| rs10794471 | | 1 | | 1 | | 12 | 130681620 |
| rs10794696 | 1 | 1 | 1 | 1 | | 5 | 178174101 |
| rs10795076 | 1 | 1 | 1 | 1 | | 10 | 3815343 |
| rs10795942 | 1 | 1 | 1 | 1 | | 10 | 12315542 |
| rs1079783 | | 1 | | 1 | | 9 | 135452684 |
| rs10798977 | 1 | 1 | 1 | 1 | | 1 | 33909921 |
| rs1079926 | 1 | 1 | | | 1 | 16 | 50943957 |
| rs10799312 | 1 | 1 | 1 | 1 | | 1 | 223719773 |
| rs10808484 | 1 | 1 | 1 | 1 | | 8 | 117748385 |
| rs10808796 | 1 | 1 | 1 | 1 | | 8 | 74732094 |
| rs10808828 | | 1 | | 1 | | 8 | 80054752 |
| rs10809877 | 1 | 1 | | | 1 | 9 | 13021013 |
| rs10809903 | | 1 | | 1 | | 9 | 1309470 |
| rs10810173 | 1 | 1 | | | 1 | 9 | 14520882 |
| rs10811927 | | 1 | | 1 | | 9 | 23413892 |
| rs10812520 | 1 | 1 | 1 | 1 | 1 | 9 | 27037246 |

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|------------|---|---|---|---|---|----|-----------|
| rs10820995 | 1 | 1 | | | 1 | 9 | 94395540 |
| rs10824914 | 1 | 1 | 1 | 1 | | 10 | 51465401 |
| rs10825066 | 1 | 1 | 1 | 1 | | 10 | 55004011 |
| rs10828136 | 1 | 1 | 1 | 1 | | 10 | 21141429 |
| rs10831905 | 1 | 1 | 1 | 1 | | 11 | 12733043 |
| rs10833328 | 1 | 1 | | | 1 | 11 | 20432136 |
| rs10835941 | 1 | 1 | 1 | 1 | | 11 | 32509711 |
| rs10842053 | 1 | 1 | 1 | 1 | | 12 | 22743552 |
| rs10843894 | 1 | 1 | 1 | 1 | | 12 | 31187486 |
| rs10848934 | | 1 | | 1 | | 12 | 3748920 |
| rs10849087 | 1 | 1 | 1 | 1 | | 12 | 4520326 |
| rs10849359 | | 1 | | 1 | | 12 | 607491 |
| rs10857228 | 1 | 1 | | | 1 | 4 | 149199150 |
| rs10859346 | | 1 | | 1 | | 12 | 91537897 |
| rs10859907 | | 1 | | 1 | | 12 | 94520037 |
| rs10862805 | | 1 | | 1 | | 12 | 82881352 |
| rs10863725 | 1 | 1 | 1 | 1 | | 1 | 207017455 |
| rs10868262 | 1 | 1 | 1 | 1 | | 9 | 71720135 |
| rs10869073 | | 1 | | 1 | | 9 | 73790337 |
| rs10875223 | 1 | 1 | 1 | 1 | | 1 | 99694804 |
| rs10876840 | | 1 | | 1 | | 12 | 54321281 |
| rs10878994 | | 1 | | 1 | | 12 | 68146963 |
| rs10880801 | 1 | 1 | | | 1 | 12 | 44185663 |
| rs10883479 | 1 | 1 | 1 | 1 | | 10 | 102152850 |
| rs10884778 | | 1 | | 1 | | 10 | 111177106 |
| rs10885355 | 1 | 1 | 1 | 1 | | 10 | 114248441 |
| rs10886671 | 1 | 1 | 1 | 1 | | 10 | 122111778 |
| rs10887047 | 1 | 1 | 1 | 1 | | 10 | 123770790 |
| rs10887382 | | 1 | | 1 | | 10 | 86561922 |
| rs10888101 | 1 | 1 | 1 | 1 | | 8 | 14947165 |
| rs10889272 | 1 | 1 | 1 | 1 | | 1 | 62175137 |
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| rs1486082 | 1 | 1 | 1 | 1 | | 1 | 72301127 |
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| rs1531631 | 1 | 1 | 1 | 1 | 1 | 14 | 78694245 |
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| rs17029408 | 1 | 1 | 1 | 1 | | 2 | 42332554 |
| rs17034929 | 1 | 1 | 1 | 1 | | 3 | 3665193 |
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| rs2323154 | 1 | 1 | 1 | 1 | | 6 | 82003585 |
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| rs261558 | | 1 | | 1 | | 8 | 97112645 |
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| rs2630615 | 1 | 1 | | | 1 | 3 | 73226780 |
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| rs2733332 | 1 | 1 | 1 | 1 | | 15 | 55175641 |
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| rs2836604 | 1 | 1 | 1 | 1 | | 21 | 38963165 |
| rs2836824 | 1 | 1 | 1 | 1 | 1 | 21 | 39302693 |
| rs2838857 | 1 | 1 | 1 | 1 | | 21 | 45505428 |
| rs2839349 | 1 | 1 | 1 | 1 | | 21 | 46841625 |
| rs2839475 | 1 | 1 | 1 | 1 | | 21 | 42481242 |
| rs2839589 | 1 | 1 | 1 | 1 | | 21 | 43147296 |
| rs2840131 | 1 | 1 | 1 | 1 | | 4 | 133131132 |
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| rs2855711 | 1 | 1 | | | 1 | 12 | 11921573 |
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| rs2876167 | 1 | 1 | 1 | 1 | 1 | 6 | 9589358 |
| rs2876507 | 1 | 1 | 1 | 1 | | 20 | 18941114 |
| rs2877251 | 1 | 1 | 1 | 1 | | 22 | 23564481 |
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| rs2882836 | 1 | 1 | | | 1 | 7 | 10434228 |
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| rs3010888 | 1 | 1 | 1 | 1 | | 1 | 12710219 |
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| rs303997 | 1 | 1 | | | 1 | 19 | 61116255 |
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| rs308207 | 1 | 1 | 1 | 1 | | 5 | 93757741 |
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| rs342042 | 1 | 1 | 1 | 1 | 1 | 3 | 6864799 |
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| rs351871 | | 1 | | 1 | | 5 | 77011795 |
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| rs355331 | 1 | 1 | | | 1 | 18 | 31328218 |
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| rs3912157 | | 1 | | 1 | | 5 | 114149797 |
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| rs3917862 | 1 | 1 | 1 | 1 | | 1 | 167859737 |
| rs3918334 | | 1 | | 1 | | 13 | 102776780 |
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| rs6089232 | 1 | 1 | 1 | 1 | 1 | 20 | 60516335 | |
| rs6089457 | 1 | 1 | 1 | 1 | 1 | 20 | 59670346 | |
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| rs6109533 | 1 | 1 | | | 1 | 1 | 20 | 12672326 |
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| rs6749268 | 1 | 1 | 1 | 1 | 1 | 2 | 118335398 |
| rs6749316 | | 1 | | 1 | 1 | 2 | 137789970 |
| rs6749847 | 1 | 1 | 1 | 1 | 1 | 2 | 177276102 |
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| rs6752254 | 1 | 1 | 1 | 1 | 1 | 2 | 218766988 |
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| rs9852803 | | 1 | | 1 | | 3 | 173233393 |
| rs9855729 | 1 | 1 | 1 | 1 | | 3 | 198628979 |
| rs9855978 | 1 | 1 | | | 1 | 3 | 80171732 |
| rs9857666 | 1 | 1 | | | 1 | 3 | 72316453 |

| | | | | | | | |
|-----------|---|---|---|---|---|----|-----------|
| rs9859419 | 1 | 1 | 1 | 1 | | 3 | 65679524 |
| rs9873664 | 1 | 1 | 1 | 1 | | 3 | 25994466 |
| rs987456 | 1 | 1 | 1 | 1 | | 7 | 147743920 |
| rs9877183 | 1 | 1 | | | 1 | 3 | 169414149 |
| rs9882443 | 1 | 1 | 1 | 1 | | 3 | 48724068 |
| rs9883291 | | 1 | | 1 | | 3 | 4840354 |
| rs988366 | 1 | 1 | | | 1 | 4 | 28991828 |
| rs988409 | 1 | 1 | 1 | 1 | | 5 | 123758382 |
| rs9884706 | 1 | 1 | 1 | 1 | 1 | 4 | 32275985 |
| rs9905820 | 1 | 1 | 1 | 1 | | 17 | 12578096 |
| rs9912143 | 1 | 1 | 1 | 1 | | 17 | 8647754 |
| rs9914703 | 1 | 1 | | | 1 | 17 | 61772598 |
| rs991811 | | 1 | | 1 | | 4 | 100729882 |
| rs9919329 | | 1 | | 1 | | 1 | 67818862 |
| rs9923061 | 1 | 1 | 1 | 1 | | 16 | 74881862 |
| rs992499 | 1 | 1 | 1 | 1 | | 21 | 27463501 |
| rs992851 | | 1 | | 1 | | 12 | 38657759 |
| rs9930132 | | 1 | | 1 | | 16 | 77662123 |
| rs9937047 | 1 | 1 | 1 | 1 | 1 | 16 | 56703086 |
| rs9938659 | 1 | 1 | 1 | 1 | | 16 | 51002320 |
| rs9939450 | 1 | 1 | 1 | 1 | | 16 | 28208988 |
| rs9943167 | 1 | 1 | 1 | 1 | | 1 | 42323839 |
| rs9945487 | | 1 | | 1 | | 18 | 72472144 |
| rs9947280 | 1 | 1 | 1 | 1 | | 18 | 13997837 |
| rs9948021 | 1 | 1 | | | 1 | 18 | 6549984 |
| rs9948912 | 1 | 1 | | | 1 | 18 | 33107639 |
| rs9950834 | 1 | 1 | 1 | 1 | | 18 | 42548720 |
| rs99521 | 1 | 1 | 1 | 1 | | 15 | 91029637 |
| rs9954050 | 1 | 1 | 1 | 1 | | 18 | 47988772 |
| rs9954356 | 1 | 1 | 1 | 1 | | 18 | 8807441 |
| rs9958947 | | 1 | | 1 | | 18 | 45340930 |
| rs996062 | 1 | 1 | 1 | 1 | | 7 | 124154815 |
| rs997820 | 1 | 1 | | | 1 | 12 | 21518824 |
| rs9978445 | 1 | 1 | 1 | 1 | | 21 | 24278435 |
| rs9981318 | 1 | 1 | 1 | 1 | | 21 | 37071260 |
| rs9988572 | 1 | 1 | | | 1 | 1 | 245685933 |
| rs9993162 | 1 | 1 | | | 1 | 4 | 136287660 |

A. European substructure ancestry informative markers were selected as indicated in **Methods**.

B. EUROset1 contains the NORTHset1, SOUTH and NS European substructure AIMs (ESAIMs). The EUROset2 contains NORTHset2, SOUTH and NS ESAIMs.

C. NORTHset2 contains the NORTHset1 marker set and additional selected SNPs as described in **Methods**.

| | | | | | | | | | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| GERM | 0.0121 | 0.0147 | 0.0136 | 0.0072 | 0.0039 | 0.0029 | 0.0089 | 0.0015 | 0.0079 | 0.0010 | | | | | | | |
| | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | | | | | | | |
| | 0.0003 | 0.0011 | 0.0007 | 0.0008 | 0.0007 | 0.0007 | 0.0004 | 0.0003 | 0.0009 | 0.0006 | | | | | | | |
| EEURA | 0.0128 | 0.0149 | 0.0133 | 0.0068 | 0.0049 | 0.0040 | 0.0086 | 0.0033 | 0.0091 | 0.0034 | 0.0014 | | | | | | |
| | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | | | | | | |
| | 0.002 | 0.0016 | 0.0004 | 0.0015 | 0.0022 | 0.001 | 0.0016 | 0.0018 | 0.0017 | 0.001 | 0.0015 | | | | | | |
| RUS | 0.0194 | 0.0211 | 0.0202 | 0.0137 | 0.0108 | 0.0088 | 0.0120 | 0.0079 | 0.0126 | 0.0038 | 0.0037 | 0.0029 | | | | | |
| | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | | | | | |
| | 0.0021 | 0.0007 | 0.0011 | 0.0003 | 0.0025 | 0.0003 | 0.0007 | 0.0011 | 0.0012 | 0.0014 | 0.0006 | 0.0011 | | | | | |
| SWED | 0.0167 | 0.0204 | 0.0191 | 0.0120 | 0.0084 | 0.0064 | 0.0117 | 0.0055 | 0.0100 | 0.0020 | 0.0007 | 0.0025 | 0.0036 | | | | |
| | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | | | | |
| | 0.0013 | 0.0006 | 0.0005 | 0.0003 | 0.0009 | 0.001 | 0.0009 | 0.0008 | 0.0014 | 0.0004 | 0.0002 | 0.0009 | 0.0008 | | | | |
| ORC | 0.0194 | 0.0212 | 0.0201 | 0.0146 | 0.0103 | 0.0080 | 0.0136 | 0.0063 | 0.0124 | 0.0039 | 0.0048 | 0.0055 | 0.0092 | 0.0046 | | | |
| | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | | | |
| | 0.0022 | 0.0017 | 0.002 | 0.0012 | 0.0026 | 0.0007 | 0.0027 | 0.0007 | 0.002 | 0.0007 | 0.001 | 0.0005 | 0.0016 | 0.0005 | | | |
| SARD | 0.0163 | 0.0183 | 0.0166 | 0.0131 | 0.0088 | 0.0072 | 0.0204 | 0.0071 | 0.0133 | 0.0140 | 0.0117 | 0.0132 | 0.0210 | 0.0155 | 0.0162 | | |
| | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | | |
| | 0.0011 | 0.0001 | 0.0014 | 0.0002 | 0.0011 | 0.0004 | 0.0005 | 0.0011 | 0.0014 | 0.0005 | 0.0007 | 0.0004 | 0.0006 | 0.0008 | 0.0006 | | |
| TUSC | 0.0086 | 0.0102 | 0.0096 | 0.0066 | 0.0005 | 0.0004 | 0.0094 | 0.0023 | 0.0084 | 0.0055 | 0.0032 | 0.0045 | 0.0108 | 0.0061 | 0.0098 | 0.0083 | |
| | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | +/- | |
| | 0.001 | 0.0013 | 0.0005 | 0.0006 | 0.0025 | 0.0001 | 0.0014 | 0.0011 | 0.0007 | 0.001 | 0.0008 | 0.0016 | 0.002 | 0.002 | 0.0025 | 0.0013 | |

A. Paired Fst values are the mean +/- S.D determined from three non-overlapping sets of 3500 SNPs using the Weir and Cockerham algorithm (see Methods).

B. Population groups included Druze, Bedouin (BDN), Palestinian (PAL), Ashkenazi Jewish American (AJA), Greek (GRK), Italian (ITN), Adygei (ADY), Spanish (SPN), Basque (BAS), IRISH, German (GERM), Eastern European (EEUR), Russian (RUS), Swedish (SWED), Orcadian (ORC), Sardinian (SARD), and Tuscan (TUSC).

Table S3. Fis values for selected European Population Groups

| POPULATION GROUP | Fis VALUE^a |
|-------------------------|------------------------------|
| BEDOUIIN | 0.0379 +/- 0.0010 |
| PALESTINIAN | 0.0108 +/- 0.0047 |
| ASHKENAZI JEWISH | 0.0025 +/- 0.0024 |
| GREEK | 0.0039 +/- 0.0072 |
| ITALIAN | 0.0018 +/- 0.0036 |
| ADYGEI | 0.0059 +/- 0.0063 |
| SPANISH | 0.0112 +/- 0.0016 |
| BASQUE | -0.0014 +/- 0.0023 |
| IRISH | 0.0025 +/- 0.0022 |
| GERMAN | 0.0062 +/- 0.0021 |
| EAST EUROPEAN AMERICAN | 0.0104 +/- 0.0028 |
| RUSSIAN | 0.0003 +/- 0.0063 |
| SWEDISH | 0.0002 +/- 0.0021 |
| ORCADIAN | -0.0011 +/- 0.0048 |
| SARDINIAN | 0.0085 +/- 0.0013 |
| TUSCAN | 0.0063 +/- 0.0067 |

a. Fis values are the mean +/- S.D determined from three non-overlapping sets of 3500 SNPs using the Weir and Cockerham algorithm (see Methods).