

Supplemental Table: List of 96 ancestry informative markers (AIMs) selected for Latinos

identified from genotyping three ancestral populations (37 West Africans, 42 European

Caucasians, and 30 Native Americans) on the Affymetrix GeneChip Human Mapping 100K

array.[12]

| Chromosome | Marker Name | AFR allele freq | EUR allele freq | NA allele freq | AFR - EUR Delta | AFR - NA Delta | EUR - NA Delta |
|-------------------|--------------------|------------------------|------------------------|-----------------------|------------------------|-----------------------|-----------------------|
| 1 | rs9286859* | 0.421 | 0.881 | 0.067 | 0.460 | 0.354 | 0.814 |
| 1 | rs10908348 | 0.842 | 0.048 | 0.000 | 0.794 | 0.842 | 0.048 |
| 1 | rs520982 | 0.111 | 0.905 | 0.833 | 0.794 | 0.722 | 0.071 |
| 1 | rs2335405 | 0.079 | 0.571 | 0.967 | 0.492 | 0.888 | 0.395 |
| 1 | rs4662179 | 1.000 | 0.929 | 0.167 | 0.071 | 0.833 | 0.762 |
| 1 | rs1538043* | 0.111 | 0.857 | 1.000 | 0.746 | 0.889 | 0.143 |
| 1 | rs10495441* | 0.526 | 0.048 | 0.767 | 0.479 | 0.240 | 0.719 |
| 2 | rs10490014 | 0.947 | 0.119 | 0.333 | 0.828 | 0.614 | 0.214 |
| 2 | rs10496035 | 0.079 | 0.833 | 0.333 | 0.754 | 0.254 | 0.500 |
| 2 | rs6716602 | 0.147 | 0.905 | 0.833 | 0.758 | 0.686 | 0.071 |
| 2 | rs9306855 | 0.132 | 0.619 | 1.000 | 0.487 | 0.868 | 0.381 |
| 2 | rs2381203 | 0.947 | 0.405 | 0.067 | 0.543 | 0.881 | 0.338 |
| 2 | rs1366840 | 0.000 | 0.500 | 0.900 | 0.500 | 0.900 | 0.400 |
| 2 | rs1517634 | 0.974 | 0.700 | 0.067 | 0.274 | 0.907 | 0.633 |
| 2 | rs356652 | 1.000 | 0.881 | 0.167 | 0.119 | 0.833 | 0.714 |
| 2 | rs1437660 | 0.974 | 0.190 | 0.900 | 0.783 | 0.074 | 0.710 |
| 3 | rs1989180* | 0.868 | 0.071 | 0.000 | 0.797 | 0.868 | 0.071 |
| 3 | rs10510726 | 0.789 | 0.000 | 0.000 | 0.789 | 0.789 | 0.000 |
| 3 | rs1806558 | 0.026 | 0.786 | 0.233 | 0.759 | 0.207 | 0.552 |
| 3 | rs4687010 | 0.895 | 0.048 | 0.033 | 0.847 | 0.861 | 0.014 |
| 3 | rs2306522 | 0.059 | 0.406 | 0.967 | 0.347 | 0.908 | 0.560 |
| 3 | rs2256194 | 0.105 | 0.643 | 1.000 | 0.538 | 0.895 | 0.357 |
| 3 | rs10510302 | 0.684 | 0.929 | 0.133 | 0.244 | 0.551 | 0.795 |
| 3 | rs2317212 | 0.711 | 0.143 | 0.867 | 0.568 | 0.156 | 0.724 |
| 3 | rs4686997 | 0.132 | 0.190 | 0.900 | 0.059 | 0.768 | 0.710 |
| 4 | rs10517290* | 0.921 | 0.071 | 0.267 | 0.850 | 0.654 | 0.195 |
| 4 | rs6847612 | 0.053 | 0.643 | 0.967 | 0.590 | 0.914 | 0.324 |
| 4 | rs10517749 | 1.000 | 0.452 | 0.133 | 0.548 | 0.867 | 0.319 |
| 4 | rs10517243 | 0.412 | 0.048 | 0.767 | 0.364 | 0.355 | 0.719 |
| 4 | rs1921884 | 0.421 | 0.810 | 0.100 | 0.388 | 0.321 | 0.710 |
| 4 | rs2099365 | 0.353 | 0.026 | 0.733 | 0.327 | 0.380 | 0.707 |
| 5 | rs6861029* | 0.921 | 0.200 | 0.000 | 0.721 | 0.921 | 0.200 |
| 5 | rs6877794 | 0.038 | 0.861 | 0.231 | 0.823 | 0.192 | 0.630 |
| 5 | rs9284966 | 0.194 | 0.976 | 0.933 | 0.782 | 0.739 | 0.043 |
| 5 | rs2311735 | 0.289 | 0.262 | 0.967 | 0.028 | 0.677 | 0.705 |
| 5 | rs9329079 | 0.658 | 0.810 | 0.033 | 0.152 | 0.625 | 0.776 |

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|----|-------------|-------|-------|-------|-------|-------|-------|
| 5 | rs3776597* | 0.789 | 0.024 | 0.167 | 0.766 | 0.623 | 0.143 |
| 6 | rs1028572 | 0.132 | 0.944 | 0.714 | 0.813 | 0.583 | 0.230 |
| 6 | rs1334601 | 0.868 | 0.095 | 0.033 | 0.773 | 0.835 | 0.062 |
| 6 | rs1570843 | 0.947 | 0.190 | 0.567 | 0.757 | 0.381 | 0.376 |
| 6 | rs860751 | 0.132 | 0.905 | 0.900 | 0.773 | 0.768 | 0.005 |
| 6 | rs205262 | 0.868 | 0.310 | 0.000 | 0.559 | 0.868 | 0.310 |
| 6 | rs1462475 | 0.579 | 0.262 | 0.967 | 0.317 | 0.388 | 0.705 |
| 6 | rs2670375* | 0.105 | 0.738 | 1.000 | 0.633 | 0.895 | 0.262 |
| 7 | rs6959905* | 0.158 | 0.929 | 0.700 | 0.771 | 0.542 | 0.229 |
| 7 | rs1404966 | 0.132 | 0.905 | 0.800 | 0.773 | 0.668 | 0.105 |
| 7 | rs156429 | 0.088 | 0.643 | 0.967 | 0.555 | 0.878 | 0.324 |
| 7 | rs661079 | 0.868 | 0.214 | 0.000 | 0.654 | 0.868 | 0.214 |
| 7 | rs6976891 | 0.132 | 0.119 | 0.833 | 0.013 | 0.702 | 0.714 |
| 7 | rs4947673 | 0.750 | 0.842 | 0.133 | 0.092 | 0.617 | 0.709 |
| 8 | rs4291261 | 0.947 | 0.071 | 0.133 | 0.876 | 0.814 | 0.062 |
| 8 | rs7836147 | 0.184 | 1.000 | 1.000 | 0.816 | 0.816 | 0.000 |
| 8 | rs9298108 | 0.947 | 0.190 | 0.033 | 0.757 | 0.914 | 0.157 |
| 9 | rs590086 | 0.842 | 0.048 | 0.033 | 0.794 | 0.809 | 0.014 |
| 9 | rs7847028 | 0.921 | 0.143 | 0.633 | 0.778 | 0.288 | 0.490 |
| 9 | rs1500318 | 0.118 | 0.905 | 1.000 | 0.787 | 0.882 | 0.095 |
| 9 | rs9314709 | 0.974 | 0.738 | 0.033 | 0.236 | 0.940 | 0.705 |
| 9 | rs4741013 | 0.895 | 1.000 | 0.267 | 0.105 | 0.628 | 0.733 |
| 9 | rs2891189 | 0.632 | 0.810 | 0.107 | 0.178 | 0.524 | 0.702 |
| 10 | rs7921261* | 0.125 | 0.976 | 1.000 | 0.851 | 0.875 | 0.024 |
| 10 | rs816627 | 0.895 | 0.048 | 0.267 | 0.847 | 0.628 | 0.219 |
| 10 | rs10508349 | 0.000 | 0.000 | 0.767 | 0.000 | 0.767 | 0.767 |
| 10 | rs3808943 | 0.895 | 1.000 | 0.167 | 0.105 | 0.728 | 0.833 |
| 11 | rs1487214 | 0.842 | 0.048 | 0.200 | 0.794 | 0.642 | 0.152 |
| 11 | rs7127539 | 0.947 | 0.143 | 0.633 | 0.805 | 0.314 | 0.490 |
| 11 | rs666899 | 0.053 | 0.595 | 0.933 | 0.543 | 0.881 | 0.338 |
| 11 | rs1533224 | 0.026 | 0.143 | 0.967 | 0.117 | 0.940 | 0.824 |
| 11 | rs10501992* | 0.132 | 0.095 | 0.833 | 0.036 | 0.702 | 0.738 |
| 12 | rs10734822 | 0.219 | 1.000 | 1.000 | 0.781 | 0.781 | 0.000 |
| 12 | rs4762106 | 0.912 | 0.143 | 0.700 | 0.769 | 0.212 | 0.557 |
| 12 | rs2287538 | 0.947 | 0.690 | 0.067 | 0.257 | 0.881 | 0.624 |
| 12 | rs7310151 | 0.056 | 0.810 | 0.933 | 0.754 | 0.878 | 0.124 |
| 12 | rs3803088 | 1.000 | 0.476 | 0.100 | 0.524 | 0.900 | 0.376 |
| 12 | rs1298913 | 0.053 | 0.190 | 0.900 | 0.138 | 0.847 | 0.710 |
| 13 | rs1360348 | 0.132 | 0.929 | 0.600 | 0.797 | 0.468 | 0.329 |
| 13 | rs1885894 | 0.947 | 0.190 | 0.433 | 0.757 | 0.514 | 0.243 |
| 13 | rs831223 | 0.889 | 0.071 | 0.033 | 0.817 | 0.856 | 0.038 |
| 13 | rs959745 | 0.921 | 0.214 | 0.000 | 0.707 | 0.921 | 0.214 |
| 14 | rs2357442 | 0.842 | 0.905 | 0.133 | 0.063 | 0.709 | 0.771 |
| 15 | rs638169 | 0.167 | 0.976 | 0.967 | 0.810 | 0.800 | 0.010 |
| 15 | rs970254 | 0.941 | 0.238 | 0.067 | 0.703 | 0.875 | 0.171 |
| 15 | rs10520735 | 0.974 | 0.262 | 0.967 | 0.712 | 0.007 | 0.705 |
| 16 | rs437620 | 0.579 | 0.810 | 0.100 | 0.231 | 0.479 | 0.710 |
| 17 | rs1478785 | 0.026 | 0.810 | 0.800 | 0.783 | 0.774 | 0.010 |
| 17 | rs2303506 | 0.105 | 0.881 | 0.714 | 0.776 | 0.609 | 0.167 |
| 17 | rs2107441 | 0.412 | 0.786 | 0.000 | 0.374 | 0.412 | 0.786 |

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|----|------------|-------|-------|-------|-------|-------|-------|
| 18 | rs2306514 | 0.132 | 0.690 | 1.000 | 0.559 | 0.868 | 0.310 |
| 18 | rs12953952 | 0.056 | 0.925 | 1.000 | 0.869 | 0.944 | 0.075 |
| 18 | rs3813127 | 0.053 | 0.214 | 0.933 | 0.162 | 0.881 | 0.719 |
| 18 | rs2133094 | 0.105 | 0.190 | 0.933 | 0.085 | 0.828 | 0.743 |
| 19 | rs289332 | 0.139 | 0.643 | 1.000 | 0.504 | 0.861 | 0.357 |
| 20 | rs2023385 | 0.184 | 1.000 | 0.700 | 0.816 | 0.516 | 0.300 |
| 20 | rs6023367 | 0.933 | 0.143 | 0.033 | 0.790 | 0.900 | 0.110 |
| 21 | rs2837369 | 0.316 | 0.762 | 0.033 | 0.446 | 0.282 | 0.729 |
| 21 | rs2823893* | 0.132 | 1.000 | 1.000 | 0.868 | 0.868 | 0.000 |
| 21 | rs2037916* | 1.000 | 0.714 | 0.100 | 0.286 | 0.900 | 0.614 |

Delta is the absolute value of the difference in allele frequency between specified population 1 and population 2. It can take a range between 0 (completely uninformative) to 1 (completely informative).

AFR=African, EUR=European, NA=Native American. * Marker excluded from analysis either because failed multiplex genotyping or monomorphic in our population.