

Table ST3. Genome-wide multi-point LOD scores for social responsiveness as a quantitative trait in 536 families from AGRE using parent reports.

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CHR, CM, SNP, LOD
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1, 0.328, rs10910078, -0.337
1, 1.391, rs10909890, -0.297
1, 1.463, rs4648384, -0.296
1, 1.591, rs10797342, -0.276
1, 1.761, rs10797368, -0.256
1, 1.840, rs11583804, -0.247
1, 1.844, rs878201, -0.247
1, 1.858, rs2485945, -0.249
1, 1.875, rs12044030, -0.255
1, 2.046, rs2142569, -0.332
1, 2.207, rs1569419, -0.318
1, 2.237, rs926244, -0.310
1, 2.260, rs2817168, -0.297
1, 2.280, rs2993493, -0.261
1, 2.364, rs2817178, -0.242
1, 2.411, rs2817185, -0.237
1, 2.468, rs1798246, -0.231
1, 2.634, rs12124147, -0.216
1, 2.637, rs2651906, -0.216
1, 2.653, rs16823542, -0.213
1, 2.721, rs2455118, -0.175
1, 2.740, rs10797386, -0.165
1, 2.768, rs3002685, -0.150
1, 2.864, rs10909918, -0.148
1, 3.029, rs4415513, -0.123
1, 3.054, rs2483256, -0.127
1, 3.128, rs4648489, -0.123
1, 3.131, rs2493310, -0.104
1, 3.151, rs868688, -0.129
1, 3.173, rs2493275, -0.142
1, 3.213, rs12024847, -0.167
1, 3.260, rs1984069, -0.198
1, 3.281, rs870171, -0.194
1, 3.302, rs2493272, -0.193
1, 3.475, rs4648505, -0.174
1, 3.531, rs947344, -0.161
1, 3.616, rs12119711, -0.143
1, 3.634, rs4648524, -0.137
1, 3.684, rs878063, -0.122
1, 3.690, rs2821063, -0.120
1, 3.803, rs7544357, -0.087
1, 3.866, rs4648398, -0.091
1, 3.906, rs4276857, -0.117
1, 4.031, rs3765692, -0.184
1, 4.055, rs3765703, -0.163
1, 4.069, rs3765705, -0.166
1, 4.173, rs3765761, -0.166
1, 4.191, rs747827, -0.156
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1, 4.329, rs1181877, -0.112
1, 4.376, rs2799182, -0.092
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1,68.288,rs6690437,-0.015  
1,68.444,rs17414912,-0.005  
1,68.483,rs10489168,-0.003  
1,68.527,rs6699067,-0.002  
1,68.663,rs619199,-0.000  
1,68.666,rs6429539,-0.000  
1,68.700,rs3866643,-0.000  
1,68.703,rs11210996,-0.000  
1,68.706,rs1340647,-0.000  
1,68.792,rs9804150,-0.003  
1,68.801,rs7354900,-0.003  
1,68.812,rs6429541,-0.002  
1,68.832,rs6704115,0.000  
1,68.865,rs7554123,0.001  
1,68.874,rs11211012,0.002  
1,68.893,rs270764,0.000  
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1,69.104,rs3863641,-0.011  
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1,69.439,rs12022855,-0.013



1,69.544,rs614486,-0.009  
1,69.665,rs720413,-0.012  
1,69.769,rs13373822,-0.020  
1,70.054,rs9727862,-0.026  
1,70.061,rs1502908,-0.026  
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1,70.340,rs13373881,-0.022  
1,70.829,rs2405922,-0.017  
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1,71.135,rs606852,-0.012  
1,71.160,rs518063,-0.009  
1,71.192,rs12028069,-0.005  
1,71.241,rs2457066,-0.004  
1,71.302,rs4554761,-0.003  
1,71.315,rs11211576,-0.001  
1,71.321,rs2506987,-0.000  
1,71.322,rs931937,-0.000  
1,71.331,rs12402179,-0.001  
1,71.364,rs4926966,-0.001  
1,71.398,rs1561572,-0.003  
1,71.406,rs1561573,-0.004  
1,71.418,rs3850885,-0.004  
1,71.429,rs4927069,-0.004  
1,71.442,rs12024706,-0.004  
1,71.524,rs11211632,-0.003  
1,71.550,rs11584659,-0.003  
1,71.550,rs17103991,-0.003  
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1,71.608,rs502819,-0.004  
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1,71.729,rs12098127,-0.005  
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1,71.738,rs1539525,-0.009  
1,71.742,rs2803264,-0.012  
1,71.746,rs2803269,-0.012  
1,71.750,rs2803274,-0.012  
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1,71.757,rs6701767,-0.006  
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1,72.231,rs1875635,0.000  
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1,73.227,rs835342,0.001  
1,73.248,rs6671552,0.001  
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1,74.242,rs1288495,0.001  
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1,76.159,rs686106,0.000  
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1,77.378,rs626353,0.064  
1,77.404,rs2114574,0.056  
1,77.474,rs4927186,0.023  
1,77.484,rs2182832,0.021  
1,77.486,rs2149037,0.020  
1,77.493,rs2479394,0.019  
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1,77.662,rs1165226,0.038  
1,77.747,rs880385,0.055  
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1,77.836,rs1392127,0.076

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1,77.880,rs10443215,0.078  
1,77.885,rs9436516,0.081  
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1,77.939,rs11577319,0.116  
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1,78.373,rs1412215,0.148  
1,78.510,rs1229948,0.146  
1,79.041,rs2793673,0.149  
1,79.060,rs12070360,0.148  
1,79.192,rs10159099,0.142  
1,79.369,rs4431886,0.118  
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1,79.482,rs12093027,0.117  
1,79.534,rs875153,0.132  
1,79.562,rs3892374,0.137  
1,79.689,rs4628,0.118  
1,79.723,rs12081589,0.115  
1,79.778,rs1041602,0.119  
1,79.829,rs933001,0.129  
1,79.960,rs11206887,0.135  
1,80.092,rs10489618,0.108  
1,80.144,rs857107,0.092  
1,80.187,rs1569746,0.083  
1,80.206,rs2298130,0.083  
1,80.226,rs6662617,0.082  
1,80.256,rs6672416,0.101  
1,80.264,rs947636,0.101  
1,80.286,rs761964,0.093  
1,80.295,rs706469,0.090  
1,80.311,rs647962,0.093  
1,80.571,rs626457,0.168  
1,80.607,rs582317,0.177  
1,80.887,rs595056,0.187  
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1,80.951,rs17115362,0.112  
1,81.015,rs17115430,0.096  
1,81.019,rs17115445,0.095  
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1,81.460,rs6686072,0.037  
1,81.510,rs1341318,0.044  
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1,81.911,rs3131780,0.054  
1,81.955,rs3118027,0.055  
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1,82.336,rs1188002,0.058  
1,82.341,rs1998739,0.059  
1,82.355,rs6663542,0.058  
1,82.361,rs4110981,0.058  
1,82.372,rs2806403,0.058  
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1,82.922,rs11207205,0.058  
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1,82.997,rs338934,0.045  
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1,83.043,rs11207224,0.062  
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1,83.513,rs2811876,0.062  
1,83.553,rs6677589,0.062  
1,83.635,rs11207306,0.065  
1,83.764,rs942124,0.076  
1,83.812,rs9436174,0.077  
1,83.823,rs4601609,0.076  
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1,84.025,rs6667591,0.061  
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1,85.049,rs2897708,-0.043  
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1,85.058,rs9436605,-0.043  
1,85.162,rs11800976,-0.061  
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1,85.178,rs681128,-0.049  
1,85.273,rs6661520,-0.058  
1,85.286,rs17120400,-0.060  
1,85.319,rs6587879,-0.066  
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1,85.472,rs496946,-0.149  
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1,85.647,rs6661743,-0.140  
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1,86.132,rs591979,-0.158  
1,86.167,rs2121598,-0.152  
1,86.172,rs662495,-0.151  
1,86.201,rs12062121,-0.146  
1,86.285,rs632853,-0.121  
1,86.305,rs543314,-0.119  
1,86.344,rs1572312,-0.113  
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1,98.133,rs2651237,-0.000  
1,98.136,rs617211,0.000  
1,98.167,rs4515743,0.003  
1,98.174,rs4233083,0.004  
1,98.179,rs4146541,0.005  
1,98.180,rs4233084,0.005  
1,98.208,rs7522196,0.007  
1,98.273,rs8179355,0.009  
1,98.308,rs10889884,0.011  
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1,98.454,rs998550,0.018  
1,98.624,rs4998697,0.037  
1,98.632,rs1409165,0.037  
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1,99.292,rs7550923,0.029  
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1,99.340,rs1041676,0.029  
1,99.352,rs1591382,0.028  
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1,99.445,rs1486087,0.013  
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2,47.786,rs6742202,-0.014  
2,47.788,rs1653763,-0.018  
2,47.796,rs748860,-0.026  
2,47.800,rs1653786,-0.018  
2,47.801,rs4665609,-0.018  
2,47.804,rs1709339,-0.017  
2,47.824,rs543012,-0.027  
2,47.841,rs17045819,-0.029  
2,47.931,rs11902184,-0.041  
2,47.946,rs10865262,-0.041  
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2,48.453,rs9309386,-0.090  
2,48.476,rs499728,-0.089  
2,48.592,rs11126114,-0.085  
2,48.698,rs858648,-0.084  
2,48.784,rs12713638,-0.066  
2,48.841,rs890682,-0.068  
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2,57.257,rs7574123,-0.171  
2,57.289,rs2367957,-0.164  
2,57.360,rs17338700,-0.144  
2,57.375,rs6714970,-0.141  
2,57.384,rs6735386,-0.152  
2,57.424,rs6738183,-0.149  
2,57.430,rs7572718,-0.172  
2,57.619,rs1718718,-0.175  
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2,57.819,rs13033324,-0.212  
2,57.851,rs745007,-0.233  
2,57.883,rs6750420,-0.239  
2,57.906,rs2059443,-0.234  
2,57.930,rs10495810,-0.220  
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2,58.494,rs1220211,-0.172  
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2,58.581,rs9917264,-0.155  
2,58.604,rs1527616,-0.171  
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2,73.781,rs4953503,-0.002  
2,73.793,rs6744530,-0.004  
2,73.810,rs4953514,-0.005  
2,73.833,rs7559733,-0.002  
2,73.851,rs6742794,-0.006  
2,73.869,rs9309149,-0.013  
2,73.878,rs9789343,-0.014  
2,73.900,rs2348238,-0.016  
2,73.906,rs797703,-0.016  
2,73.934,rs441327,-0.016  
2,74.259,rs7570354,-0.041  
2,74.346,rs2471403,-0.038  
2,74.528,rs4561709,-0.062  
2,74.533,rs10185212,-0.064  
2,74.604,rs3792234,-0.079  
2,74.615,rs2140551,-0.097  
2,74.697,rs1404057,-0.091  
2,74.709,rs7579411,-0.092  
2,74.730,rs4131885,-0.103

2,74.765,rs7574612,-0.109  
2,74.768,rs4256003,-0.129  
2,74.801,rs4482537,-0.132  
2,74.851,rs10490126,-0.151  
2,74.857,rs7579295,-0.152  
2,74.858,rs17037747,-0.152  
2,74.862,rs4953640,-0.154  
2,74.870,rs1024779,-0.160  
2,74.897,rs6706144,-0.177  
2,74.901,rs17500266,-0.179  
2,74.920,rs12713027,-0.185  
2,75.060,rs1504179,-0.173  
2,75.100,rs12713042,-0.125  
2,75.212,rs7557485,-0.134  
2,75.283,rs1405959,-0.144  
2,75.399,rs1995172,-0.138  
2,75.458,rs7564547,-0.136  
2,75.561,rs1518823,-0.131  
2,75.567,rs870168,-0.131  
2,75.595,rs7586200,-0.135  
2,75.618,rs925931,-0.139  
2,75.671,rs1156742,-0.172  
2,75.722,rs17491881,-0.178  
2,75.751,rs13417424,-0.176  
2,75.815,rs4971552,-0.173  
2,75.946,rs1715970,-0.188  
2,76.075,rs9678669,-0.226  
2,76.123,rs7590358,-0.242  
2,76.154,rs6706713,-0.253  
2,76.178,rs7581256,-0.233  
2,76.226,rs10177104,-0.217  
2,76.230,rs2351767,-0.186  
2,76.250,rs17040897,-0.213  
2,76.269,rs13391995,-0.225  
2,76.271,rs2194385,-0.226  
2,76.279,rs2048979,-0.229  
2,76.285,rs719645,-0.231  
2,76.356,rs10202039,-0.261  
2,76.391,rs9309199,-0.277  
2,76.444,rs2193225,-0.282  
2,76.550,rs12616790,-0.273  
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2,76.765,rs1115763,-0.257  
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2,77.037,rs17862718,-0.265  
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2,77.395,rs6545251,-0.244  
2,77.463,rs10181636,-0.267  
2,77.533,rs2103389,-0.267  
2,77.576,rs17042637,-0.273  
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2,77.606,rs2141844,-0.276

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2,77.817,rs11125431,-0.340  
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2,78.332,rs2034254,-0.438  
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2,78.941,rs7601625,-0.398  
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2,79.128,rs17432234,-0.431  
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2,79.464,rs7594497,-0.440  
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2,79.604,rs4672074,-0.405  
2,79.743,rs6545534,-0.498  
2,79.784,rs13418952,-0.502  
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2,79.894,rs6545554,-0.507  
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2,80.082,rs13423780,-0.503  
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2,80.107,rs17047897,-0.489  
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2,80.912,rs11125711,-0.502  
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2,80.991,rs2203805,-0.494  
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2,82.194,rs2192692,-0.413  
2,82.228,rs6758100,-0.437  
2,82.330,rs10490100,-0.387  
2,82.376,rs2192567,-0.369  
2,82.385,rs1990558,-0.365  
2,82.387,rs5008666,-0.363  
2,82.399,rs4325734,-0.362  
2,82.410,rs12622464,-0.362  
2,82.451,rs4432437,-0.366  
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2,82.711,rs2419402,-0.264  
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2,82.989,rs1861151,-0.248  
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2,83.400,rs7597268,-0.215  
2,83.416,rs7567242,-0.215  
2,83.430,rs243083,-0.215  
2,83.446,rs4672388,-0.226  
2,83.534,rs13028240,-0.201  
2,83.566,rs10184550,-0.194  
2,83.575,rs1896297,-0.194  
2,83.635,rs356982,-0.180  
2,83.705,rs842767,-0.182  
2,83.724,rs881952,-0.170  
2,83.746,rs10198826,-0.158  
2,83.803,rs7576218,-0.141  
2,83.894,rs6545832,-0.138  
2,83.981,rs1534648,-0.130  
2,84.356,rs3943540,-0.149  
2,84.389,rs6719628,-0.155  
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2,84.627,rs6742894,-0.183  
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2,85.334,rs10496112,-0.198  
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2,85.482,rs6546073,-0.279  
2,85.538,rs13002043,-0.267  
2,85.685,rs17700924,-0.268  
2,85.888,rs6546095,-0.266  
2,86.092,rs702874,-0.263  
2,86.097,rs10469881,-0.264  
2,86.099,rs929698,-0.264  
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2,86.274,rs17029538,-0.295  
2,86.276,rs9678117,-0.259  
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2,86.503,rs6546118,-0.198  
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2,89.784,rs1921266,-0.455  
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2,89.868,rs6754571,-0.517  
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2,103.692,rs6710298,-1.165  
2,103.702,rs6757830,-1.171

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2,168.196,rs2729722,0.019  
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2,196.979,rs1379020,-0.008  
2,196.993,rs1456550,-0.009  
2,197.192,rs12477557,-0.011  
2,197.230,rs2215023,-0.010  
2,197.597,rs16830242,-0.000  
2,197.606,rs12477961,-0.000  
2,197.610,rs10199690,-0.000  
2,197.660,rs2048968,-0.008  
2,197.678,rs13035389,-0.015  
2,197.695,rs1518095,-0.029  
2,197.756,rs11901699,-0.027  
2,197.770,rs13012540,-0.026  
2,197.785,rs2881208,-0.025  
2,197.879,rs12611872,-0.033  
2,197.881,rs12615435,-0.033  
2,197.911,rs10931878,-0.031

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2,197.947,rs2577850,-0.028  
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2,199.667,rs10931967,-0.133  
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2,199.859,rs12472067,-0.192  
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2,199.952,rs7571877,-0.146  
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2,206.498,rs4417658,-0.176  
2,206.523,rs2370833,-0.189  
2,206.632,rs7584375,-0.208  
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2,207.118,rs10515951,-0.195  
2,207.169,rs12468557,-0.197  
2,207.190,rs2287598,-0.200  
2,207.196,rs12997383,-0.200  
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2,208.257,rs6725181,-0.222  
2,208.290,rs2371276,-0.212  
2,208.303,rs6435659,-0.190  
2,208.319,rs6745717,-0.196  
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3,3.546,rs17039471,-1.785  
3,3.584,rs17193533,-1.781  
3,3.644,rs2648451,-1.724  
3,3.671,rs6781581,-1.785  
3,3.890,rs9820473,-1.780  
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3,3.970,rs2046239,-1.743  
3,4.024,rs10510212,-1.750  
3,4.243,rs7634053,-1.802  
3,4.341,rs9883944,-1.817  
3,4.465,rs6771572,-1.866  
3,4.519,rs6796167,-1.897  
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3,4.677,rs7610626,-1.975  
3,4.685,rs9818677,-1.978  
3,4.918,rs6763978,-1.866  
3,5.002,rs2727950,-1.814  
3,5.181,rs6777569,-1.612  
3,5.199,rs9825844,-1.585  
3,5.337,rs2727905,-1.432  
3,5.427,rs2727925,-1.439  
3,5.525,rs11720157,-1.422  
3,5.589,rs1178517,-1.414  
3,5.778,rs9841294,-1.368  
3,5.791,rs1720199,-1.372  
3,5.828,rs1967597,-1.367  
3,5.857,rs1685495,-1.361  
3,5.885,rs3856841,-1.346  
3,5.885,rs11715813,-1.345  
3,5.886,rs1827451,-1.344  
3,5.977,rs9828150,-1.130  
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3,6.005,rs6793017,-1.028  
3,6.018,rs4685527,-0.973  
3,6.031,rs2616585,-0.957  
3,6.034,rs2728055,-0.960  
3,6.035,rs13314366,-0.966  
3,6.052,rs2728063,-1.098  
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3,6.143,rs2728076,-1.152  
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3,6.361,rs6804966,-1.141

3,6.449,rs1914009,-1.070  
3,6.526,rs1949342,-1.065  
3,6.654,rs2728047,-1.031  
3,6.754,rs17019466,-1.009  
3,6.757,rs1033237,-1.008  
3,6.771,rs11129265,-1.000  
3,6.990,rs2222104,-1.034  
3,7.138,rs1474021,-1.046  
3,7.193,rs7615939,-1.049  
3,7.292,rs975334,-1.099  
3,7.407,rs11129309,-1.088  
3,7.413,rs6772294,-1.088  
3,7.444,rs1400207,-1.095  
3,7.475,rs6776496,-1.102  
3,7.540,rs9810902,-1.112  
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3,9.265,rs3804803,-1.233  
3,9.288,rs3804800,-1.221  
3,9.301,rs334807,-1.267  
3,9.303,rs3804797,-1.263  
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3,14.799,rs1866997,-1.483  
3,14.800,rs6785305,-1.502  
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3,16.070,rs3846158,-1.377  
3,16.164,rs9879338,-1.314  
3,16.183,rs7638016,-1.305  
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3,16.312,rs4684476,-1.242  
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3,16.433,rs4143244,-1.206  
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3,33.441,rs9683047,-0.497  
3,33.448,rs7628386,-0.501  
3,33.487,rs6763180,-0.522  
3,33.497,rs3773172,-0.532  
3,33.523,rs1062540,-0.560  
3,33.524,rs2327896,-0.560  
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3,33.531,rs6794801,-0.555  
3,33.565,rs9878341,-0.507  
3,33.587,rs7645232,-0.503  
3,33.622,rs13062253,-0.497  
3,33.660,rs7647806,-0.491  
3,33.709,rs4685199,-0.467  
3,33.720,rs7615913,-0.495  
3,33.727,rs12631299,-0.506  
3,33.750,rs12495033,-0.540  
3,33.761,rs4583633,-0.507  
3,33.768,rs4685204,-0.506  
3,33.820,rs17040011,-0.503  
3,33.823,rs13091225,-0.502  
3,33.869,rs17320277,-0.434  
3,33.948,rs7636830,-0.386  
3,33.980,rs2568848,-0.388  
3,34.021,rs903056,-0.401  
3,34.031,rs829182,-0.424  
3,34.034,rs864361,-0.431  
3,34.035,rs3899614,-0.433  
3,34.043,rs9828560,-0.455  
3,34.084,rs9875241,-0.460  
3,34.105,rs6442478,-0.454  
3,34.118,rs10510432,-0.447  
3,34.156,rs1389300,-0.443  
3,34.252,rs293908,-0.426  
3,34.294,rs4685234,-0.391  
3,34.301,rs12491077,-0.391  
3,34.444,rs2164358,-0.416  
3,34.463,rs12489827,-0.418  
3,34.486,rs17477815,-0.415  
3,34.615,rs11712564,-0.394  
3,34.640,rs7625117,-0.393  
3,34.775,rs826428,-0.373  
3,34.883,rs9813606,-0.354  
3,34.884,rs2291853,-0.354  
3,34.913,rs851848,-0.380  
3,34.953,rs6442511,-0.371  
3,35.008,rs3773464,-0.347  
3,35.146,rs13075694,-0.393  
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3,36.122,rs4234534,-0.382  
3,36.135,rs4423748,-0.377  
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3,36.168,rs13079803,-0.364  
3,36.228,rs17041971,-0.363

3,36.277,rs6442586,-0.362  
3,36.304,rs842280,-0.346  
3,36.311,rs9848911,-0.342  
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3,37.419,rs4685385,-0.396  
3,37.631,rs6762816,-0.407  
3,37.657,rs11549705,-0.408  
3,37.680,rs4077616,-0.373  
3,37.683,rs4072191,-0.371  
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3,38.068,rs9862290,-0.408  
3,38.286,rs7646613,-0.369  
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3,38.945,rs6785093,-0.197  
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3,39.292,rs9881034,-0.154  
3,39.333,rs6792900,-0.173  
3,39.358,rs4533671,-0.141  
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3,61.108,rs1488092,-0.014  
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3,61.271,rs7621380,-0.011  
3,61.397,rs7647352,-0.003  
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3,61.958,rs7610107,-0.005  
3,61.960,rs870445,-0.005  
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3,62.016,rs7645818,-0.010  
3,62.219,rs950146,-0.006  
3,62.294,rs1507881,-0.006  
3,62.312,rs7625360,-0.005  
3,62.359,rs2135951,-0.006  
3,62.381,rs7620657,-0.007  
3,62.462,rs1553656,-0.009  
3,62.465,rs1507882,-0.004  
3,62.730,rs6773378,-0.006  
3,62.776,rs17036373,-0.005  
3,62.782,rs267527,-0.003  
3,62.788,rs6550478,-0.002  
3,62.813,rs267569,-0.002  
3,62.834,rs2844363,-0.003  
3,62.908,rs7373528,0.000  
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3,62.953,rs11129771,-0.000  
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3,63.581,rs503327,-0.000  
3,63.639,rs11706270,-0.000  
3,63.844,rs7374540,0.002  
3,63.866,rs7427874,0.000  
3,63.897,rs6797133,0.000  
3,63.910,rs9832895,0.000  
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3,117.581,rs1163391,-0.175  
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3,117.915,rs1403250,-0.199  
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3,118.412,rs694022,-0.195  
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3,119.013,rs9873710,-0.108  
3,119.020,rs1462307,-0.110  
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3,120.330,rs2669910,-0.005  
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3,120.765,rs17607135,-0.030  
3,120.783,rs2693039,-0.037  
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3,120.814,rs2733403,-0.050  
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3,120.885,rs7615798,-0.073  
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3,122.138,rs7612435,-0.003  
3,122.174,rs4240161,-0.001  
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3,123.322,rs6797385,-0.000  
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3,123.372,rs16826997,0.000  
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3,123.395,rs16827045,0.001  
3,123.412,rs9830523,0.002  
3,123.429,rs4616651,0.003  
3,123.439,rs2927271,0.005  
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3,123.767,rs13066603,0.002  
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3,145.929,rs16851254,-0.139  
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3,146.020,rs1983234,-0.143  
3,146.079,rs10513136,-0.168  
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3,146.105,rs7612543,-0.166  
3,146.195,rs295302,-0.118  
3,146.199,rs2131495,-0.113  
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3,146.217,rs2030184,-0.093  
3,146.231,rs4683620,-0.080  
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3,146.240,rs9842908,-0.063  
3,146.268,rs2677421,-0.060  
3,146.307,rs4683630,-0.044  
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3,146.711,rs4256152,-0.035  
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3,147.949,rs12635345,-0.115  
3,147.985,rs4839604,-0.112  
3,147.987,rs961413,-0.115  
3,148.012,rs9810857,-0.142  
3,148.014,rs1046706,-0.142  
3,148.022,rs7641350,-0.142  
3,148.052,rs986376,-0.152  
3,148.101,rs6769555,-0.171  
3,148.207,rs6793522,-0.138  
3,148.213,rs905142,-0.136  
3,148.223,rs4839595,-0.133  
3,148.266,rs10513205,-0.140  
3,148.310,rs2049504,-0.188  
3,148.311,rs9872790,-0.189  
3,148.316,rs1837611,-0.191  
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3,148.419,rs6779888,-0.193  
3,148.447,rs13061355,-0.190  
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3,148.497,rs7644727,-0.193  
3,148.501,rs10935500,-0.192

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3,153.322,rs1873901,0.007  
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3,173.246,rs791832,-0.567  
3,173.341,rs7620311,-0.503  
3,173.481,rs10460879,-0.454

3,173.690,rs792128,-0.437  
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3,173.771,rs705041,-0.400  
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3,176.133,rs6789981,-0.348  
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3,176.753,rs11919911,-0.349  
3,177.152,rs1421425,-0.351  
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3,177.469,rs9290503,-0.280  
3,177.500,rs13084517,-0.267  
3,177.524,rs10936812,-0.275  
3,177.565,rs552008,-0.290  
3,177.619,rs538340,-0.303  
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3,177.746,rs10513729,-0.294  
3,177.820,rs9880874,-0.288  
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3,177.965,rs12633712,-0.314  
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3,180.457,rs1490070,-0.327  
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3,181.862,rs16829067,-0.393  
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3,186.053,rs472795,-0.876  
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3,186.179,rs7620788,-0.831  
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3,188.418,rs16859163,-0.403  
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3,188.473,rs2377102,-0.364  
3,188.480,rs10513798,-0.358  
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3,191.016,rs2268817,-0.222  
3,191.037,rs1981783,-0.194  
3,191.064,rs7618021,-0.192  
3,191.072,rs9839753,-0.183  
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3,191.081,rs9821408,-0.176  
3,191.092,rs12496426,-0.184  
3,191.150,rs6798365,-0.200  
3,191.163,rs7610178,-0.202  
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3,191.295,rs2070633,-0.214  
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3,191.393,rs1656922,-0.197  
3,191.397,rs266723,-0.202  
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3,191.855,rs6444210,-0.191  
3,191.861,rs11916885,-0.191  
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3,192.044,rs12492885,-0.236  
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3,192.178,rs2378246,-0.255  
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3,206.475,rs1532684,-0.163  
3,206.502,rs781415,-0.157  
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3,206.685,rs2701588,-0.123  
3,206.816,rs1995472,-0.106  
3,206.897,rs1995574,-0.123  
3,206.997,rs1505440,-0.159  
3,207.043,rs2986,-0.180  
3,207.139,rs2367129,-0.212  
3,207.166,rs11716856,-0.209  
3,207.167,rs4455277,-0.209  
3,207.378,rs1157623,-0.161  
3,207.403,rs9855714,-0.153  
3,207.548,rs4686626,-0.143  
3,207.557,rs922331,-0.142  
3,207.756,rs10428211,-0.148  
3,207.857,rs2367477,-0.145  
3,207.952,rs4687402,-0.151  
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3,208.060,rs2280476,-0.158  
3,208.064,rs10439973,-0.159  
3,208.084,rs6763501,-0.161  
3,208.177,rs9879227,-0.170

3,208.312,rs9283663,-0.171  
3,208.577,rs7624750,-0.145  
3,208.784,rs280552,-0.148  
3,208.871,rs904879,-0.104  
3,208.889,rs6444746,-0.095  
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3,209.215,rs11914434,-0.000  
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3,209.322,rs1078814,0.004  
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4,2.617,rs3135123,0.387  
4,2.628,rs550483,0.388  
4,2.972,rs7660498,0.455  
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4,3.053,rs17768393,0.450  
4,3.064,rs4974674,0.451  
4,3.104,rs3118617,0.405  
4,3.173,rs3135093,0.362  
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4,3.744,rs1751848,0.345  
4,3.760,rs1263446,0.346  
4,3.785,rs231395,0.380  
4,3.947,rs2515960,0.376  
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4,4.382,rs2798224,0.419  
4,4.386,rs16844106,0.418  
4,4.420,rs994426,0.414  
4,4.777,rs1406674,0.379  
4,4.837,rs762864,0.365  
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4,5.159,rs6831256,0.318  
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4,5.471,rs1730775,0.310  
4,5.781,rs7699191,0.343  
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4,6.276,rs7377501,0.235  
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4,7.198,rs3792686,0.281  
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4, 91.220, rs17007149, 0.096  
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4, 91.671, rs2017802, 0.083  
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4,113.157,rs1800627,-0.311  
4,113.202,rs2346841,-0.334  
4,113.215,rs6822976,-0.343  
4,113.345,rs17040920,-0.353  
4,113.373,rs7689017,-0.355  
4,113.484,rs2298999,-0.403  
4,113.575,rs2040710,-0.420  
4,113.576,rs10033691,-0.421  
4,113.620,rs1125819,-0.432  
4,113.641,rs6533493,-0.418  
4,113.651,rs6835929,-0.413  
4,113.660,rs6813255,-0.408  
4,113.675,rs17612737,-0.396  
4,113.703,rs6533498,-0.379  
4,113.718,rs12499874,-0.373  
4,113.756,rs1482470,-0.348  
4,113.814,rs244055,-0.347

4,113.826,rs10011752,-0.340  
4,113.853,rs104888888,-0.324  
4,113.857,rs243970,-0.321  
4,113.949,rs17041821,-0.318  
4,113.973,rs939213,-0.316  
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4,114.227,rs1900829,-0.278  
4,114.344,rs2723296,-0.255  
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4,114.504,rs3853444,-0.206  
4,114.543,rs6838973,-0.175  
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4,114.621,rs511049,-0.172  
4,114.727,rs7439813,-0.168  
4,114.740,rs11726961,-0.167  
4,114.992,rs297012,-0.166  
4,115.302,rs1546053,-0.208  
4,115.414,rs7694111,-0.223  
4,115.423,rs17043035,-0.220  
4,115.439,rs6826534,-0.218  
4,115.469,rs7692766,-0.212  
4,115.516,rs11727195,-0.210  
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4,115.696,rs6830890,-0.254  
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4,115.749,rs4833869,-0.295  
4,115.843,rs326902,-0.276  
4,116.052,rs6812046,-0.233  
4,116.299,rs9994166,-0.182  
4,116.393,rs17604169,-0.141  
4,116.409,rs17604670,-0.134  
4,116.418,rs17627616,-0.131  
4,116.456,rs6810537,-0.116  
4,116.460,rs17044418,-0.114  
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4,117.223,rs7675254,-0.033  
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4,117.409,rs313938,-0.063  
4,117.410,rs17045462,-0.063  
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4,117.566,rs7697503,-0.116  
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4,117.781,rs11940206,-0.137  
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4,117.885,rs7664824,-0.153  
4,117.887,rs10008952,-0.152  
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4,118.001,rs2158196,-0.139  
4,118.233,rs1011973,-0.154  
4,118.334,rs10018022,-0.167  
4,118.342,rs10461151,-0.155  
4,118.353,rs7699538,-0.149  
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4,118.377,rs7674158,-0.149  
4,118.390,rs10012647,-0.158  
4,118.392,rs766183,-0.159  
4,118.393,rs11098213,-0.160  
4,118.430,rs10020382,-0.177  
4,118.467,rs6851287,-0.186  
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4,121.117,rs4240307,-0.444  
4,121.128,rs11932518,-0.434  
4,121.139,rs6827477,-0.423  
4,121.142,rs12510650,-0.422  
4,121.163,rs6829877,-0.389  
4,121.193,rs1352573,-0.358  
4,121.211,rs2220497,-0.350  
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4,121.401,rs9997637,-0.271  
4,121.415,rs10857057,-0.270  
4,121.501,rs10028343,-0.266  
4,121.519,rs631271,-0.271  
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4,122.702,rs10518377,-0.481  
4,122.800,rs6534216,-0.444  
4,122.825,rs343202,-0.443  
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4,123.147,rs9997417,-0.484  
4,123.153,rs13128635,-0.485  
4,123.220,rs13110590,-0.486  
4,123.297,rs10010505,-0.539  
4,123.315,rs692157,-0.551  
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4,127.488,rs1216405,-1.172  
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4,139.686,rs4956319,-0.785  
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4,139.829,rs975136,-0.734  
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4,140.086,rs2575570,-0.598  
4,140.112,rs2306924,-0.592  
4,140.152,rs11100863,-0.556  
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4,140.582,rs4835001,-0.299  
4,140.595,rs10006257,-0.303  
4,140.607,rs4373182,-0.285  
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4,140.635,rs1489152,-0.316  
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4,140.666,rs2044276,-0.323  
4,140.695,rs1992598,-0.320  
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4,140.875,rs4835014,-0.345  
4,140.904,rs7678910,-0.362  
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4,140.941,rs3935131,-0.402  
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4,141.015,rs17020623,-0.422  
4,141.029,rs988163,-0.420  
4,141.041,rs6814298,-0.428  
4,141.070,rs13119482,-0.457  
4,141.079,rs12332040,-0.459  
4,141.108,rs6537382,-0.458  
4,141.111,rs6537383,-0.460

4,141.135,rs7660035,-0.441  
4,141.181,rs13125215,-0.349  
4,141.207,rs6845844,-0.327  
4,141.236,rs10012073,-0.327  
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4,141.768,rs6537420,-0.295  
4,141.916,rs1504355,-0.291  
4,141.974,rs7680105,-0.290  
4,142.635,rs1370301,-0.279  
4,142.704,rs1507500,-0.273  
4,143.285,rs1400558,-0.230  
4,143.405,rs5334,-0.203  
4,143.463,rs4110,-0.201  
4,143.480,rs10028794,-0.201  
4,143.497,rs4835438,-0.200  
4,143.564,rs17475359,-0.203  
4,143.911,rs11734619,-0.219  
4,143.974,rs4027115,-0.218  
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4,144.107,rs10003349,-0.265  
4,144.191,rs2276932,-0.268  
4,144.196,rs7660368,-0.270  
4,144.238,rs1879829,-0.299  
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4,144.272,rs6535594,-0.318  
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4,144.313,rs3920217,-0.355  
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4,144.374,rs2200984,-0.363  
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4,146.160,rs3935569,-0.393  
4,146.167,rs6814401,-0.407  
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4,146.179,rs10010565,-0.378  
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4,146.241,rs12500918,-0.326  
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4,146.472,rs1516692,-0.366  
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4,148.477,rs1816702,-0.366  
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4,150.451,rs3806776,-0.264  
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4,150.546,rs3796570,-0.178  
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4,150.650,rs3775085,-0.186  
4,150.671,rs13128945,-0.191  
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4,151.657,rs10030015,-0.394  
4,151.709,rs1469245,-0.406  
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4,152.120,rs12507865,-0.335  
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4,152.456,rs17210208,-0.269  
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4,152.694,rs12510198,-0.268  
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4,154.171,rs1439395,-0.295  
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4,154.301,rs4691703,-0.290  
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4,155.269,rs7669737,-0.103  
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4,169.773,rs992363,-0.068  
4,169.853,rs4388065,-0.061  
4,170.016,rs1479377,-0.055  
4,170.021,rs13134743,-0.057  
4,170.025,rs10014039,-0.069  
4,170.027,rs13146658,-0.074  
4,170.030,rs17377586,-0.064  
4,170.031,rs10520296,-0.061  
4,170.052,rs6829020,-0.073  
4,170.060,rs11735559,-0.069  
4,170.067,rs3733398,-0.078  
4,170.073,rs17061779,-0.086  
4,170.075,rs12512924,-0.090  
4,170.082,rs722825,-0.092  
4,170.096,rs17061991,-0.077  
4,170.119,rs13140287,-0.056  
4,170.158,rs2132339,-0.057  
4,170.178,rs11133116,-0.057  
4,170.287,rs4306906,-0.046  
4,170.350,rs11133119,-0.040  
4,170.708,rs12499459,-0.025  
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4,171.089,rs2046262,-0.013  
4,171.142,rs10520340,-0.020  
4,171.236,rs6553943,-0.025  
4,171.284,rs4690687,-0.020  
4,171.341,rs1454158,-0.007  
4,171.343,rs13144122,-0.007  
4,171.370,rs11932699,-0.017  
4,171.376,rs17631173,-0.019  
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4,171.527,rs309732,-0.007  
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4,174.441,rs1434035,0.196  
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4,186.756,rs17075058,0.573

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4,203.080,rs12501064,-0.010  
4,203.114,rs6817256,-0.017  
4,203.207,rs899273,-0.023  
4,203.376,rs7685306,-0.022  
4,203.547,rs1073671,-0.020  
4,203.689,rs2218692,-0.026  
4,203.803,rs7677253,-0.026  
4,203.871,rs11937288,-0.027  
4,203.975,rs11132593,-0.033  
4,204.029,rs10018868,-0.037  
4,204.080,rs13126066,-0.043  
4,204.110,rs2029952,-0.047  
4,204.206,rs7700119,-0.059  
4,204.226,rs7690324,-0.068  
4,204.249,rs11737011,-0.065  
4,204.261,rs13106777,-0.061  
4,204.267,rs6848521,-0.059  
4,204.301,rs11932479,-0.068  
4,204.377,rs10006955,-0.075  
4,204.416,rs10032784,-0.070  
4,204.466,rs6553315,-0.065  
4,204.482,rs872030,-0.063  
4,204.631,rs1551137,-0.049  
4,205.020,rs7684487,-0.034  
4,205.050,rs1996801,-0.033  
4,205.070,rs11132766,-0.030  
4,205.162,rs13119686,-0.032  
4,205.247,rs17080259,-0.031  
5,0.023,rs341260,-0.080  
5,0.053,rs341267,-0.080  
5,0.126,rs6874933,-0.081  
5,0.357,rs2671898,-0.087  
5,0.371,rs2672777,-0.089  
5,0.458,rs6864158,-0.120  
5,0.536,rs4541696,-0.104  
5,0.610,rs12518227,-0.097  
5,0.630,rs3828569,-0.097  
5,0.819,rs7702532,-0.100  
5,0.961,rs4975533,-0.126  
5,0.966,rs326046,-0.127  
5,0.984,rs4078802,-0.129  
5,1.016,rs4975526,-0.135  
5,1.028,rs3810854,-0.136  
5,1.092,rs4580814,-0.138  
5,1.111,rs4594899,-0.132  
5,1.138,rs7726442,-0.118  
5,1.171,rs4975596,-0.113  
5,1.209,rs7727745,-0.107  
5,1.331,rs4073918,-0.089  
5,1.381,rs2736122,-0.084  
5,1.490,rs2736100,-0.068  
5,1.780,rs27061,-0.064  
5,1.811,rs2963265,-0.087  
5,1.885,rs12516758,-0.099  
5,1.903,rs40184,-0.101  
5,1.969,rs27048,-0.098  
5,2.046,rs460000,-0.095  
5,2.067,rs403636,-0.092  
5,2.086,rs6350,-0.089  
5,2.202,rs27056,-0.066

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5,2.374,rs4406174,-0.084  
5,2.439,rs4551123,-0.101  
5,2.501,rs2962066,-0.133  
5,2.550,rs4975556,-0.153  
5,2.951,rs931709,-0.124  
5,3.006,rs10512656,-0.124  
5,3.263,rs2242411,-0.110  
5,3.304,rs1107059,-0.091  
5,3.337,rs2172532,-0.096  
5,3.432,rs2276986,-0.102  
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5,3.669,rs4975744,-0.124  
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5,3.805,rs12653946,-0.140  
5,3.855,rs6894487,-0.145  
5,4.008,rs972973,-0.161  
5,4.022,rs10055976,-0.162  
5,4.243,rs4975721,-0.160  
5,4.324,rs4975807,-0.158  
5,4.415,rs6555046,-0.151  
5,4.486,rs10475134,-0.150  
5,4.519,rs4566837,-0.157  
5,4.534,rs10063808,-0.160  
5,4.594,rs4975819,-0.173  
5,4.632,rs11950809,-0.169  
5,4.648,rs7446517,-0.170  
5,4.671,rs4075798,-0.146  
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5,4.968,rs12187097,-0.157  
5,5.016,rs10041522,-0.168  
5,5.051,rs10512689,-0.166  
5,5.159,rs10068115,-0.156  
5,5.166,rs1458513,-0.156  
5,5.307,rs2652147,-0.172  
5,5.361,rs7718226,-0.174  
5,5.371,rs316566,-0.176  
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5,5.591,rs6869394,-0.182  
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5,6.478,rs569244,-0.047  
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5,6.584,rs406353,-0.034  
5,6.615,rs6555117,-0.033  
5,6.737,rs950864,-0.040  
5,6.772,rs7721778,-0.042

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5,7.038,rs11432,-0.026  
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5,7.308,rs1540708,-0.020  
5,7.327,rs10038374,-0.019  
5,7.405,rs7442964,-0.018  
5,7.436,rs559379,-0.023  
5,7.503,rs1024029,-0.034  
5,7.657,rs2934555,-0.030  
5,7.703,rs10061701,-0.030  
5,7.708,rs16874371,-0.030  
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5,7.997,rs7712222,-0.034  
5,8.016,rs2009378,-0.028  
5,8.043,rs2922992,-0.020  
5,8.095,rs2404567,-0.020  
5,8.173,rs10068728,-0.031  
5,8.226,rs167528,-0.033  
5,8.299,rs464918,-0.044  
5,8.372,rs314008,-0.029  
5,8.390,rs317000,-0.031  
5,8.496,rs903397,-0.036  
5,8.592,rs457099,-0.030  
5,8.606,rs251817,-0.030  
5,8.720,rs875853,-0.023  
5,8.729,rs1310088,-0.023  
5,8.740,rs1215667,-0.023  
5,8.743,rs396319,-0.023  
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5,8.866,rs1441533,-0.028  
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5,9.134,rs32689,-0.042  
5,9.202,rs6555203,-0.056  
5,9.456,rs698144,-0.052  
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5,9.573,rs828316,-0.027  
5,9.576,rs10042985,-0.027  
5,9.656,rs6555208,-0.020  
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5,9.808,rs6892937,-0.009  
5,9.881,rs2134400,-0.013  
5,9.903,rs1566691,-0.012  
5,9.906,rs13174381,-0.012  
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5,9.990,rs2134404,-0.013  
5,10.548,rs540937,-0.013  
5,10.761,rs6860112,-0.018  
5,10.799,rs10076711,-0.017  
5,10.850,rs11953297,-0.016  
5,10.917,rs959937,-0.022  
5,10.922,rs7706780,-0.022

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5,11.159,rs13185799,-0.024  
5,11.172,rs261125,-0.023  
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5,11.271,rs10076204,-0.075  
5,11.294,rs6861699,-0.065  
5,11.355,rs9313082,-0.082  
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5,11.538,rs16873639,-0.068  
5,11.575,rs293067,-0.048  
5,11.586,rs6894400,-0.040  
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5,12.227,rs16874489,-0.024  
5,12.321,rs465871,-0.014  
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5,12.653,rs861512,-0.018  
5,12.682,rs814776,-0.017  
5,12.830,rs270178,-0.016  
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5,13.211,rs2964399,-0.000  
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5,14.645,rs153269,-0.011

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5,16.435,rs6861277,0.020  
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5,17.657,rs567431,0.007  
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5,34.290,rs32447,0.113  
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5,185.276,rs2172048,-0.185  
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5,185.407,rs6876038,-0.174  
5,185.693,rs7715800,-0.165  
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5,185.991,rs10077377,-0.146



5,186.124,rs6865951,-0.146  
5,186.143,rs2569248,-0.146  
5,186.185,rs10042482,-0.114  
5,186.258,rs11745941,-0.092  
5,186.394,rs1541918,-0.091  
5,186.410,rs7442753,-0.090  
5,186.460,rs10059684,-0.085  
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5,186.521,rs714715,-0.089  
5,186.576,rs931802,-0.093  
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5,186.701,rs7730108,-0.137  
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5,187.021,rs2161375,-0.156  
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5,187.552,rs485710,-0.281  
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5,188.543,rs6873973,-0.278  
5,188.555,rs4867697,-0.410  
5,188.556,rs10476070,-0.421  
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5,188.730,rs874719,-0.385  
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6,150.374,rs17635342,-0.020  
6,150.389,rs4243482,-0.019  
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6,150.444,rs9399650,-0.023  
6,150.452,rs12210132,-0.024  
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6,150.490,rs1624157,-0.023  
6,150.501,rs6931504,-0.023  
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6,150.512,rs1147862,-0.032  
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6,150.543,rs1465307,-0.030  
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7,50.707,rs2267738,-0.002

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7, 51.233, rs7801993, -0.023  
7, 51.273, rs17395568, -0.023  
7, 51.305, rs17160114, -0.022  
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7, 51.407, rs218112, -0.021  
7, 51.444, rs218092, -0.014  
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7, 52.038, rs17160544, -0.049  
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7, 52.156, rs6462320, -0.065  
7, 52.160, rs7783129, -0.066  
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7, 52.644, rs917454, -0.095  
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7, 52.754, rs6945244, -0.142  
7, 53.028, rs7789565, -0.128  
7, 53.054, rs1868773, -0.124  
7, 53.062, rs399902, -0.123  
7, 53.084, rs6975016, -0.120  
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7, 53.388, rs17161568, -0.172  
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7,76.044,rs12533009,-0.079  
7,76.047,rs1153922,-0.080  
7,76.052,rs1454524,-0.081  
7,76.066,rs10793421,-0.084  
7,76.067,rs582252,-0.069  
7,76.072,rs1569267,-0.071  
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7,76.202,rs9691864,-0.111  
7,76.262,rs12055922,-0.110  
7,76.303,rs887811,-0.108  
7,76.395,rs10488137,-0.106  
7,76.479,rs7780270,-0.104  
7,76.498,rs4947490,-0.103  
7,76.535,rs2058502,-0.100  
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7,76.591,rs6969570,-0.107  
7,76.597,rs887824,-0.109  
7,76.703,rs1554718,-0.130  
7,76.811,rs4947993,-0.131  
7,76.817,rs4947995,-0.112  
7,77.106,rs10282700,-0.081  
7,77.189,rs1568824,-0.083  
7,77.406,rs4245569,-0.060

7,77.408,rs7795911,-0.061  
7,77.431,rs4621761,-0.064  
7,77.526,rs6593287,-0.091  
7,77.609,rs13238899,-0.089  
7,77.622,rs816411,-0.088  
7,77.669,rs698626,-0.088  
7,77.683,rs10232581,-0.088  
7,77.779,rs7806502,-0.085  
7,77.868,rs10282225,-0.067  
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7,78.120,rs6953819,-0.056  
7,78.219,rs7809798,-0.087  
7,78.281,rs9649680,-0.092  
7,78.501,rs13242011,-0.061  
7,78.578,rs12667898,-0.058  
7,78.600,rs1524616,-0.057  
7,78.681,rs7779067,-0.076  
7,78.719,rs17139478,-0.078  
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7,78.810,rs10234472,-0.077  
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7,81.843,rs1195227,0.022  
7,81.863,rs1718582,0.016  
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7,83.479,rs11772787,0.040  
7,83.481,rs4719095,0.040  
7,83.501,rs1202640,0.050  
7,83.533,rs4446620,0.053  
7,84.234,rs917111,0.096  
7,84.313,rs7798395,0.102  
7,84.454,rs4388345,0.101  
7,84.494,rs7808818,0.101  
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7,84.573,rs10950267,0.057  
7,84.593,rs10237977,0.040



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7,86.109,rs11764572,0.032  
7,86.246,rs13244770,0.030  
7,86.273,rs4717827,0.029  
7,86.298,rs12538362,0.029  
7,86.350,rs12530707,0.032  
7,86.438,rs6948963,0.038  
7,86.477,rs4717865,0.038  
7,86.499,rs2856728,0.039  
7,86.524,rs1091813,0.038  
7,86.589,rs178413,0.036  
7,86.644,rs223014,0.035  
7,86.800,rs17145361,0.029  
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7,86.960,rs37630,0.025  
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7,87.772,rs807874,0.004  
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7,87.784,rs7794510,0.005  
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7,88.355,rs10952955,0.057  
7,88.505,rs12540927,0.060  
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7,89.551,rs3779300,0.059

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7,90.463,rs7802036,0.028  
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7,90.955,rs321983,0.058  
7,90.975,rs7791589,0.051  
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7,91.082,rs37854,0.041  
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7,91.110,rs17151525,0.038  
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7,91.182,rs1799025,0.025  
7,91.216,rs918285,0.023  
7,91.227,rs12705836,0.033  
7,91.375,rs17407075,0.022  
7,91.382,rs7809986,0.023  
7,91.807,rs4730838,0.024  
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7,93.180,rs1016840,0.011  
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7,106.493,rs6465507,-0.032  
7,106.527,rs6961784,-0.034  
7,106.579,rs6465527,-0.039  
7,106.716,rs7786855,-0.053  
7,106.806,rs2948240,-0.075  
7,106.851,rs1403185,-0.073  
7,106.873,rs4727353,-0.088  
7,106.908,rs12531148,-0.128  
7,106.914,rs10486860,-0.133  
7,106.932,rs717483,-0.144  
7,106.939,rs2240293,-0.149  
7,106.941,rs9641200,-0.149  
7,106.968,rs1207731,-0.145  
7,106.995,rs1207721,-0.146  
7,107.020,rs1526084,-0.155  
7,107.169,rs1918523,-0.170  
7,107.277,rs1420172,-0.167  
7,107.349,rs10435325,-0.164  
7,107.370,rs1420181,-0.163  
7,107.376,rs10236201,-0.164  
7,107.449,rs1003620,-0.193  
7,107.452,rs10485998,-0.193  
7,107.460,rs10234240,-0.191  
7,107.473,rs17168699,-0.189  
7,107.518,rs10256461,-0.185  
7,107.555,rs6415328,-0.170  
7,107.674,rs7796445,-0.101  
7,107.725,rs2072100,-0.080  
7,107.779,rs460,-0.074  
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7,108.063,rs7777145,-0.030  
7,108.405,rs9649213,-0.007  
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7,112.587,rs362721,-0.009  
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7,137.968,rs2042513,-0.075  
7,138.142,rs741664,-0.078  
7,138.235,rs1347229,-0.069  
7,138.424,rs156927,-0.055  
7,138.503,rs156974,-0.038  
7,138.574,rs7789101,-0.035  
7,138.604,rs4728260,-0.035  
7,138.809,rs3823572,-0.028  
7,138.839,rs1222430,-0.031  
7,138.845,rs1421480,-0.031  
7,138.853,rs1364423,-0.030  
7,138.855,rs12667801,-0.030  
7,138.863,rs4732021,-0.027  
7,138.905,rs782535,-0.012  
7,138.924,rs1722883,-0.007  
7,138.929,rs4728329,-0.006  
7,138.932,rs9641977,-0.006  
7,138.963,rs7788959,-0.005  
7,138.967,rs4142278,-0.005  
7,138.968,rs964546,-0.005  
7,138.978,rs6962033,-0.004  
7,139.019,rs2347717,-0.001  
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7,139.296,rs6976629,0.000  
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7,139.936,rs292593,0.003  
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7,140.039,rs17168358,0.005  
7,140.060,rs292706,0.006  
7,140.122,rs889933,0.014  
7,140.343,rs16874692,0.026  
7,140.375,rs6467593,0.029  
7,140.615,rs4430037,0.043  
7,140.619,rs10228973,0.042  
7,140.662,rs10279370,0.037  
7,140.663,rs7357254,0.036  
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7,140.723,rs6962270,0.041  
7,140.803,rs1982292,0.031  
7,140.811,rs7789182,0.030  
7,140.935,rs1994464,0.024  
7,140.957,rs7793221,0.028  
7,140.997,rs2129800,0.025  
7,141.004,rs322213,0.024  
7,141.051,rs4728378,0.020  
7,141.065,rs9801253,0.018  
7,141.087,rs6959619,0.015  
7,141.103,rs2129801,0.013  
7,141.121,rs10262220,0.012  
7,141.216,rs1346209,0.010  
7,141.285,rs13238853,0.014

7,141.287,rs7811360,0.014  
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7,147.039,rs6944016,-0.002  
7,147.072,rs6977910,-0.001  
7,147.078,rs999229,-0.005  
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7,147.137,rs1562853,-0.007  
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7,147.493,rs6467815,-0.011  
7,147.508,rs6944822,-0.011  
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7,147.799,rs7779972,-0.022  
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7,148.839,rs41708,-0.051  
7,148.881,rs4726434,-0.051  
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7,149.018,rs10267006,-0.150  
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7,149.196,rs2471281,-0.141  
7,149.208,rs7799803,-0.160  
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7,149.231,rs2471282,-0.179  
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7,150.199,rs6975836,-0.092  
7,150.207,rs917158,-0.091  
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7,150.369,rs1181739,-0.083  
7,150.396,rs1181763,-0.088  
7,150.452,rs4726454,-0.092  
7,150.514,rs1110074,-0.097  
7,150.817,rs12703402,-0.093  
7,151.021,rs2234002,-0.099  
7,151.361,rs4726484,-0.085



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7,151.373,rs10255702,-0.076  
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7,151.385,rs7810984,-0.053  
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7,151.848,rs2966709,-0.093  
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7,153.030,rs1731117,-0.120  
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7,153.311,rs17394323,-0.149  
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7,153.426,rs9640440,-0.183  
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7,154.131,rs6965855,-0.238  
7,154.140,rs6979491,-0.236  
7,154.152,rs1404803,-0.232  
7,154.236,rs13230938,-0.257  
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7,154.298,rs1405109,-0.252  
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7,161.278,rs3735315,-0.002  
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7,175.771,rs13230019,-0.441  
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7,176.052,rs6962496,-0.348  
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7,178.323,rs1657273,-0.143  
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7,179.413,rs2058950,-0.116  
7,179.420,rs11760227,-0.117  
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8,0.319,rs11137104,0.035  
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8,0.841,rs12678439,0.062  
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8,1.314,rs4976875,0.151  
8,1.411,rs7814902,0.188  
8,1.478,rs11775819,0.215  
8,1.479,rs10094861,0.215  
8,1.488,rs6558446,0.216  
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8,1.699,rs6997056,0.279



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8,3.977,rs6420206,0.166  
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8,4.315,rs17515,0.185  
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8,4.387,rs6982596,0.162  
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8,4.749,rs341704,0.099  
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8,5.237,rs3802292,0.010  
8,5.253,rs7002853,0.011  
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8,7.045,rs2204223,0.022  
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9,37.730,rs776782,0.004  
9,37.740,rs776776,0.006  
9,37.758,rs702202,0.003  
9,37.778,rs1332706,0.003  
9,37.801,rs776761,0.003  
9,37.938,rs576026,0.007  
9,37.969,rs1332704,0.007  
9,38.003,rs2164000,0.006  
9,38.008,rs4246839,0.004  
9,38.011,rs1978746,0.004  
9,38.028,rs10118309,0.001  
9,38.040,rs7869627,0.001  
9,38.090,rs10963764,0.001  
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9,38.383,rs1327504,-0.000  
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9,38.999,rs1982840,0.000  
9,39.013,rs10963994,0.001  
9,39.046,rs3004297,0.001  
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9,39.174,rs4262389,0.002  
9,39.647,rs6475326,0.007  
9,39.793,rs10964139,0.003  
9,39.825,rs7045369,0.002  
9,39.836,rs960908,0.003  
9,39.854,rs12336251,0.003  
9,39.872,rs10964160,0.004  
9,39.904,rs7858547,0.003  
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9,40.220,rs2180939,-0.000  
9,40.235,rs2383113,-0.001  
9,40.272,rs7862478,-0.000  
9,40.276,rs12000690,-0.000  
9,40.398,rs6475366,0.001  
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9,40.543,rs4977334,0.001  
9,40.600,rs7025940,0.001  
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9,41.808,rs1986633,0.149  
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9,42.173,rs4978113,0.135  
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9,42.278,rs991794,0.170  
9,42.288,rs7033598,0.171  
9,42.330,rs754819,0.171  
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9,42.392,rs11788139,0.166  
9,42.449,rs1869203,0.160  
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9,43.440,rs1547705,0.187  
9,43.445,rs4977574,0.187  
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9,43.481,rs2065501,0.140  
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9,43.536,rs2025796,0.111  
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9,43.764,rs7868400,0.153  
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9,43.899,rs1414696,0.141  
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9,44.177,rs2383246,0.161  
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9,44.203,rs10733382,0.156  
9,44.222,rs10811812,0.153  
9,44.256,rs7859974,0.147  
9,44.283,rs2383251,0.153  
9,44.304,rs10511715,0.176  
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9,44.608,rs7873308,0.172  
9,44.618,rs7030403,0.172  
9,44.661,rs274932,0.151  
9,44.662,rs10811933,0.150  
9,44.699,rs156396,0.149  
9,44.702,rs7865248,0.149  
9,44.739,rs7852159,0.149  
9,44.763,rs4977617,0.137  
9,44.772,rs1041350,0.141  
9,44.801,rs10966007,0.155  
9,44.809,rs10757442,0.158  
9,44.815,rs10448166,0.158  
9,44.828,rs996793,0.146  
9,44.832,rs2383268,0.142  
9,44.835,rs10966021,0.138  
9,44.853,rs1329024,0.131  
9,44.864,rs4977887,0.127  
9,44.869,rs16907652,0.125  
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9,44.926,rs1410846,0.131  
9,44.945,rs3793595,0.123  
9,44.962,rs12341793,0.123  
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9,45.013,rs1376141,0.126  
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9,45.059,rs10966141,0.122  
9,45.139,rs4615671,0.104  
9,45.141,rs4548269,0.104  
9,45.203,rs4977917,0.098  
9,45.239,rs2298620,0.085  
9,45.290,rs7871735,0.087  
9,45.360,rs637658,0.081  
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9,46.495,rs1318995,0.113  
9,46.590,rs1461331,0.094  
9,46.590,rs10812156,0.094  
9,46.593,rs7046929,0.094  
9,46.598,rs1563950,0.095  
9,46.651,rs10966805,0.159  
9,46.653,rs10812206,0.135  
9,46.666,rs10757517,0.128  
9,46.669,rs4977974,0.129  
9,46.685,rs980462,0.133  
9,46.708,rs7035858,0.134  
9,47.151,rs1929973,0.079  
9,47.297,rs4451410,0.059  
9,47.351,rs10511761,0.052  
9,47.373,rs7036435,0.048  
9,47.423,rs10511762,0.041  
9,47.490,rs7036161,0.046  
9,47.507,rs4534200,0.050  
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9,47.953,rs1220064,0.037  
9,47.975,rs16909835,0.038  
9,48.117,rs541805,0.039  
9,48.224,rs1332340,0.033  
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9,48.354,rs957252,0.032  
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9,48.708,rs443014,0.030  
9,48.721,rs514616,0.030  
9,48.762,rs1336467,0.031  
9,48.895,rs6475895,0.036  
9,48.964,rs4111166,0.037  
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9,49.370,rs12003612,0.022  
9,49.474,rs16910953,0.023  
9,49.543,rs621786,0.022  
9,49.560,rs7042267,0.023  
9,49.575,rs7034505,0.024  
9,49.575,rs7035021,0.024  
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9,49.596,rs666478,0.024  
9,49.610,rs581724,0.024  
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9,51.611,rs6476005,-0.005  
9,51.652,rs6476012,-0.004  
9,51.683,rs2026147,-0.003  
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9,51.988,rs10968179,-0.000  
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9,52.240,rs10968314,0.001  
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9,52.565,rs4554572,0.000  
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9,53.146,rs2183831,-0.002  
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9,53.172,rs4879352,-0.002  
9,53.175,rs10969197,-0.002  
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9,95.854,rs1758695,-0.196  
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9,96.109,rs9409651,-0.191  
9,96.142,rs7029673,-0.195  
9,96.143,rs17514461,-0.195  
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9,96.215,rs7045662,-0.242  
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9,96.711,rs7868651,-0.224  
9,96.782,rs10992498,-0.227

9,96.907,rs7850247,-0.213  
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9,97.401,rs10992747,-0.172  
9,97.412,rs4744244,-0.171  
9,97.552,rs12551314,-0.161  
9,97.554,rs7033146,-0.161  
9,97.620,rs7023781,-0.199  
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9,98.185,rs7029157,-0.157  
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9,100.118,rs4592147,-0.151  
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9,100.140,rs4743556,-0.143  
9,100.142,rs7041700,-0.142  
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11,5.094,rs7127562,-0.156  
11,5.206,rs6578399,-0.154  
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11,5.603,rs1451724,-0.283  
11,5.616,rs7934650,-0.284  
11,5.661,rs7126870,-0.256  
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11,6.173,rs979942,-0.261  
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11,6.560,rs2554933,-0.195  
11,6.597,rs1376679,-0.196  
11,6.607,rs1549489,-0.189  
11,6.628,rs10836054,-0.184  
11,6.638,rs4910980,-0.195  
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11,6.992,rs16923484,-0.136  
11,7.004,rs10768149,-0.135  
11,7.007,rs7937180,-0.135  
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11,7.154,rs10836470,-0.114  
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11,7.270,rs7478759,-0.094  
11,7.346,rs1865286,-0.081  
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11,8.325,rs11036364,-0.035  
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11,13.659,rs4758040,-0.071  
11,13.680,rs1317500,-0.072  
11,13.764,rs4758295,-0.066  
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11,14.141,rs7102266,-0.070  
11,14.152,rs10840020,-0.059  
11,14.231,rs4758350,-0.072  
11,14.236,rs4237772,-0.072  
11,14.428,rs12282398,-0.094  
11,14.589,rs7105027,-0.103  
11,14.622,rs10840070,-0.104  
11,14.798,rs9633894,-0.105  
11,15.465,rs2116513,-0.080  
11,15.926,rs10840166,-0.062  
11,15.984,rs2647528,-0.068  
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11,16.006,rs10769990,-0.070  
11,16.084,rs7116459,-0.085  
11,16.143,rs7950276,-0.098  
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11,16.297,rs10770043,-0.085  
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11,35.772,rs16907379,-0.002  
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11,36.159,rs4399327,-0.035  
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11,36.190,rs11026038,-0.041  
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13,21.208,rs7984685,-0.000  
13,21.479,rs12873548,0.001  
13,21.770,rs1759857,0.006  
13,21.811,rs2760902,0.010  
13,21.816,rs9512673,0.010  
13,21.890,rs2892059,0.006  
13,21.926,rs17085657,0.005  
13,21.934,rs9512713,0.005  
13,22.068,rs9512759,0.004  
13,22.192,rs9554143,0.006  
13,22.242,rs11618682,0.008  
13,22.242,rs9512843,0.008  
13,22.318,rs1326384,0.011  
13,22.341,rs7984165,0.009  
13,22.402,rs1970616,0.009  
13,22.437,rs9581919,0.008  
13,22.467,rs1778792,0.013  
13,22.525,rs2387104,0.022  
13,22.660,rs4614573,0.019  
13,22.696,rs3829382,0.019  
13,22.727,rs9512980,0.019  
13,22.776,rs1933437,0.018  
13,22.912,rs13378207,0.015  
13,23.157,rs9319424,0.010  
13,23.235,rs3794399,0.000  
13,23.236,rs2296189,-0.001  
13,23.339,rs9554325,-0.017  
13,23.380,rs6491283,-0.019  
13,23.485,rs622227,-0.032  
13,23.592,rs9550377,-0.033  
13,23.623,rs7320503,-0.033  
13,23.648,rs17086813,-0.025  
13,23.671,rs7321093,-0.018  
13,23.713,rs7997858,-0.015  
13,23.722,rs1980747,-0.015  
13,23.766,rs17086947,-0.015  
13,23.798,rs8002632,-0.015  
13,23.857,rs12867747,-0.022  
13,23.983,rs1305115,-0.016  
13,24.079,rs6490331,-0.019  
13,24.190,rs7992387,-0.019  
13,24.322,rs327118,-0.020  
13,24.554,rs1885538,-0.020  
13,24.677,rs17650122,-0.021  
13,24.716,rs9551592,-0.021

13,25.189,rs7332351,-0.028  
13,25.239,rs1927836,-0.030  
13,25.397,rs7997835,-0.033  
13,25.407,rs11617962,-0.033  
13,25.844,rs2992385,-0.034  
13,25.908,rs4341627,-0.034  
13,26.037,rs9508345,-0.032  
13,26.054,rs12874453,-0.032  
13,26.256,rs9508405,-0.057  
13,26.423,rs7334388,-0.060  
13,26.619,rs7984403,-0.060  
13,26.623,rs9551682,-0.061  
13,26.648,rs4379923,-0.081  
13,26.685,rs1986785,-0.117  
13,26.763,rs2388084,-0.110  
13,26.807,rs4769753,-0.096  
13,26.845,rs7324267,-0.108  
13,26.873,rs7329421,-0.121  
13,27.056,rs1571786,-0.188  
13,27.084,rs9579398,-0.189  
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13,28.028,rs17631397,-0.239  
13,28.052,rs2388238,-0.240  
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13,28.236,rs7994485,-0.237  
13,28.268,rs9579518,-0.239  
13,28.290,rs626014,-0.240  
13,28.297,rs4769026,-0.241  
13,28.305,rs12427942,-0.239  
13,28.346,rs504508,-0.224  
13,28.350,rs656962,-0.222  
13,28.375,rs2038936,-0.246  
13,28.396,rs1409504,-0.236  
13,28.413,rs750683,-0.228  
13,28.418,rs913905,-0.223  
13,28.466,rs12583235,-0.218  
13,28.472,rs2892537,-0.212  
13,28.491,rs10478,-0.193  
13,28.500,rs11617724,-0.190  
13,28.539,rs202093,-0.177  
13,28.560,rs17633078,-0.181  
13,28.623,rs202080,-0.193  
13,28.633,rs9508701,-0.196  
13,28.709,rs9508716,-0.208  
13,28.732,rs7986129,-0.196  
13,28.759,rs9550565,-0.176  
13,28.775,rs7320510,-0.163  
13,28.832,rs1412125,-0.156  
13,28.848,rs1467719,-0.160  
13,28.851,rs9550568,-0.161  
13,28.870,rs12431309,-0.165  
13,28.881,rs9508766,-0.162  
13,28.911,rs9506325,-0.165  
13,28.939,rs9508795,-0.149  
13,28.948,rs9508798,-0.148  
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13,28.950,rs1331697,-0.141  
13,28.953,rs9508801,-0.114  
13,29.066,rs6490474,-0.125  
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13,29.138,rs7995384,-0.113  
13,29.238,rs9579654,-0.110  
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13,29.365,rs12876893,-0.120  
13,29.439,rs2313742,-0.104  
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13,29.526,rs4943311,-0.099  
13,29.554,rs6563504,-0.093  
13,29.668,rs1331847,-0.104  
13,29.806,rs2313000,-0.110  
13,29.830,rs9596054,-0.115  
13,29.919,rs4943074,-0.193  
13,29.954,rs9591599,-0.200  
13,30.001,rs9527530,-0.227  
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13,30.876,rs1613660,-0.111  
13,30.956,rs598700,-0.111  
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13,31.137,rs6563643,-0.132  
13,31.260,rs2181255,-0.101  
13,31.288,rs7139573,-0.097  
13,31.318,rs9549299,-0.090  
13,31.324,rs524566,-0.090  
13,31.401,rs6561013,-0.087  
13,31.415,rs426307,-0.092  
13,31.431,rs365873,-0.107  
13,31.485,rs424118,-0.118  
13,31.524,rs9315155,-0.126  
13,31.556,rs396150,-0.132  
13,31.638,rs2520696,-0.153  
13,31.655,rs9525969,-0.157  
13,31.662,rs9595159,-0.158  
13,31.681,rs2806628,-0.132  
13,31.685,rs9567484,-0.134  
13,31.717,rs2078326,-0.150  
13,31.793,rs4942486,-0.156  
13,31.810,rs1207952,-0.157  
13,32.042,rs4942925,-0.109  
13,32.044,rs990324,-0.108  
13,32.085,rs2147356,-0.097  
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13,32.119,rs743874,-0.087  
13,32.121,rs17643100,-0.103  
13,32.122,rs426049,-0.088  
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13,32.131,rs566528,-0.088  
13,32.138,rs398655,-0.089  
13,32.178,rs677332,-0.082  
13,32.422,rs797224,-0.088  
13,32.459,rs703232,-0.095

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13,32.494,rs9591586,-0.098  
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13,32.633,rs9536928,-0.104  
13,32.895,rs9597332,-0.114  
13,32.957,rs7334982,-0.106  
13,33.200,rs7324034,-0.070  
13,33.236,rs7323357,-0.068  
13,33.321,rs11618678,-0.069  
13,33.354,rs7333539,-0.069  
13,33.409,rs2321480,-0.083  
13,33.454,rs4943138,-0.084  
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13,33.675,rs1329667,-0.080  
13,33.796,rs1328667,-0.073  
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13,34.115,rs9528902,-0.102  
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13,34.211,rs9540648,-0.119  
13,34.265,rs9540823,-0.126  
13,34.328,rs5027696,-0.128  
13,34.370,rs2322115,-0.124  
13,34.409,rs913692,-0.151  
13,34.414,rs1998660,-0.154  
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13,34.461,rs9599293,-0.170  
13,34.582,rs1876583,-0.227  
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13,34.645,rs968351,-0.249  
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13,35.454,rs9544368,-0.363  
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13,36.690,rs9531436,-0.586  
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13,37.579,rs9315432,-0.632  
13,37.601,rs1517882,-0.644  
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13,37.753,rs9566152,-0.602  
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13,39.103,rs6563522,-0.180  
13,39.164,rs1408234,-0.185  
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13,40.040,rs612701,-0.244  
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13,40.412,rs9548183,-0.334  
13,40.537,rs612572,-0.334  
13,40.545,rs683479,-0.334  
13,40.667,rs473755,-0.344  
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14,25.279,rs7147576,-0.329  
14,25.322,rs8012543,-0.331  
14,25.384,rs1002750,-0.331  
14,25.406,rs723544,-0.326  
14,25.415,rs9671289,-0.328  
14,25.445,rs1955452,-0.333  
14,25.451,rs6576265,-0.330  
14,25.467,rs730195,-0.330  
14,25.782,rs1957478,-0.369  
14,25.888,rs12882217,-0.337  
14,25.960,rs1956228,-0.365  
14,26.226,rs4384523,-0.454  
14,26.312,rs1191571,-0.439  
14,26.361,rs1191555,-0.440  
14,26.411,rs17114947,-0.467  
14,26.432,rs1998355,-0.477  
14,26.547,rs6571317,-0.525  
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14,26.847,rs8021375,-0.510  
14,27.074,rs12589992,-0.510  
14,27.110,rs2333660,-0.508  
14,27.581,rs1372050,-0.502  
14,27.817,rs9652310,-0.507  
14,27.848,rs1440985,-0.545  
14,27.860,rs417054,-0.546  
14,28.129,rs720761,-0.564  
14,28.141,rs17096362,-0.561  
14,28.150,rs10483380,-0.559  
14,28.170,rs12436395,-0.552  
14,28.230,rs7160082,-0.586  
14,28.242,rs1956980,-0.595  
14,28.351,rs765135,-0.682  
14,28.372,rs424964,-0.688  
14,28.779,rs7149414,-0.767  
14,28.783,rs179525,-0.743  
14,28.790,rs7159120,-0.745  
14,28.793,rs882270,-0.743

14,28.835,rs2819780,-0.720  
14,28.842,rs2213951,-0.724  
14,28.895,rs8007471,-0.824  
14,29.007,rs179660,-0.876  
14,29.066,rs2239580,-0.865  
14,29.082,rs10431648,-0.863  
14,29.350,rs2179932,-0.758  
14,29.673,rs4981820,-0.744  
14,30.789,rs1888576,-0.785  
14,31.348,rs7142881,-0.803  
14,31.610,rs4981115,-0.800  
14,32.217,rs10141540,-0.786  
14,32.347,rs1278881,-0.791  
14,32.401,rs1278911,-0.764  
14,32.413,rs1278918,-0.755  
14,32.451,rs2236532,-0.725  
14,32.480,rs4981938,-0.723  
14,32.516,rs1952966,-0.740  
14,32.587,rs7151842,-0.736  
14,32.658,rs1958912,-0.748  
14,32.778,rs17386030,-0.767  
14,32.831,rs17098491,-0.730  
14,32.833,rs1279002,-0.729  
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14,33.487,rs7142879,-0.696  
14,33.665,rs1002822,-0.601  
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14,33.759,rs17098767,-0.597  
14,33.862,rs1535541,-0.606  
14,33.887,rs7494316,-0.608  
14,33.896,rs7149078,-0.608  
14,33.913,rs942029,-0.604  
14,34.087,rs10135060,-0.584  
14,34.088,rs8014419,-0.583  
14,34.089,rs8015624,-0.583  
14,34.109,rs2383302,-0.581  
14,34.250,rs1111692,-0.591  
14,34.278,rs721538,-0.595  
14,34.318,rs2145584,-0.619  
14,34.367,rs8010040,-0.643  
14,34.557,rs8012268,-0.709  
14,34.559,rs11846766,-0.709  
14,34.794,rs3825753,-0.619  
14,35.022,rs1884622,-0.526  
14,35.123,rs17439529,-0.506  
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14,35.844,rs1956007,-0.500  
14,36.055,rs2383414,-0.471  
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14,36.430,rs1279312,-0.844  
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14,36.521,rs4982062,-0.874  
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14,36.566,rs243308,-0.873  
14,36.619,rs1886781,-0.874  
14,36.843,rs1952302,-0.879  
14,36.874,rs1111533,-0.879  
14,37.075,rs1315141,-0.856  
14,37.077,rs7151675,-0.858  
14,37.110,rs2274512,-0.882  
14,37.118,rs1315131,-0.883  
14,37.165,rs1315128,-0.838  
14,37.256,rs1303470,-0.933  
14,37.361,rs17101124,-1.007  
14,37.372,rs8018440,-1.012  
14,37.383,rs12897109,-1.023  
14,37.386,rs10134359,-1.019  
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14,37.419,rs1951383,-0.920  
14,37.510,rs10132198,-0.996  
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14,37.972,rs4283129,-1.158  
14,37.994,rs944086,-1.115  
14,38.029,rs17101778,-1.125  
14,38.037,rs8016849,-1.128  
14,38.073,rs8006749,-1.105  
14,38.120,rs8020167,-1.059  
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14,38.122,rs4981220,-0.890  
14,38.123,rs4982145,-0.968  
14,38.124,rs712285,-0.988  
14,38.127,rs10148562,-0.996  
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14,38.129,rs1431062,-1.004  
14,38.130,rs1244370,-1.009  
14,38.200,rs7148400,-0.940  
14,38.255,rs1712355,-1.005  
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14,39.258,rs1951276,-1.209  
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14,39.343,rs10483453,-1.016  
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14,40.006,rs847499,-1.192  
14,40.012,rs12432424,-1.136  
14,40.134,rs7147401,-1.170  
14,40.396,rs2761336,-1.144  
14,40.401,rs2553571,-1.142  
14,40.404,rs2787431,-1.141  
14,40.427,rs8018390,-1.139  
14,40.511,rs1535722,-1.169  
14,40.623,rs12147399,-1.183  
14,40.675,rs10483465,-1.201  
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14,40.828,rs1951167,-1.270  
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14,41.052,rs1884217,-1.280  
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14,41.109,rs8009041,-1.270  
14,41.142,rs1033594,-1.326  
14,41.164,rs1325533,-1.349  
14,41.198,rs848124,-1.367  
14,41.274,rs1925685,-1.459  
14,41.275,rs10131807,-1.459  
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14,41.465,rs10130699,-1.480  
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14,42.198,rs6571820,-2.132  
14,42.228,rs17179497,-2.120  
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14,42.327,rs1952786,-2.212  
14,42.388,rs10498333,-2.263  
14,42.391,rs4146557,-2.265  
14,42.416,rs17107486,-2.266  
14,42.419,rs7159917,-2.266  
14,42.428,rs12147019,-2.249  
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14,42.456,rs2812086,-2.151  
14,42.459,rs2250334,-2.148  
14,42.469,rs11628551,-2.044  
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14,43.148,rs1957198,-1.815  
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14,43.392,rs17781119,-1.733  
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15,39.797,rs4924117,-0.231  
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16,47.944,rs2107118,0.014  
16,47.968,rs2238510,0.018  
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16,48.016,rs12149602,0.031  
16,48.048,rs2189290,0.036  
16,48.051,rs9929254,0.036  
16,48.100,rs11074618,0.044  
16,48.133,rs985729,0.044  
16,48.285,rs9930580,0.042  
16,48.313,rs271008,0.041  
16,48.388,rs11649538,0.043  
16,48.396,rs8055948,0.043  
16,48.443,rs3848388,0.046  
16,48.491,rs8059655,0.040

16,48.499,rs17831015,0.041  
16,48.499,rs2033219,0.041  
16,48.520,rs4787646,0.041  
16,48.550,rs802761,0.053  
16,48.593,rs9922232,0.051  
16,48.605,rs7185291,0.052  
16,48.759,rs12923918,0.067  
16,48.824,rs274068,0.072  
16,48.852,rs17178990,0.074  
16,48.854,rs4788437,0.074  
16,48.898,rs16974249,0.058  
16,49.007,rs4787673,0.028  
16,49.060,rs6497790,0.019  
16,49.064,rs16974369,0.019  
16,49.088,rs11642659,0.017  
16,49.186,rs4787697,0.016  
16,49.211,rs962974,0.016  
16,49.502,rs8054701,0.015  
16,49.514,rs2023657,0.015  
16,49.807,rs205153,0.025  
16,49.830,rs205138,0.026  
16,49.918,rs185840,0.027  
16,49.925,rs12932661,0.037  
16,49.949,rs2943313,0.037  
16,50.053,rs2881210,0.036  
16,50.078,rs8055371,0.034  
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16,50.188,rs12325368,0.011  
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16,50.210,rs7190796,0.008  
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16,50.585,rs11643971,0.002  
16,50.605,rs8050110,0.006  
16,50.627,rs4787792,0.005  
16,50.649,rs11074737,0.005  
16,50.655,rs4073229,0.005  
16,50.666,rs7191801,0.004  
16,50.729,rs3925102,0.004  
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16,53.334,rs11641709,-0.003  
16,53.383,rs11823,-0.005  
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16,53.392,rs4787915,-0.006  
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16,53.434,rs12925084,-0.000  
16,53.444,rs2347935,0.003  
16,53.445,rs17720179,0.003  
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16,53.552,rs1049631,0.007  
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16,53.597,rs3093363,-0.000  
16,53.605,rs7184872,-0.000  
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16,53.861,rs705917,0.000  
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16,56.836,rs11866987,-0.158  
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16,56.856,rs8056358,-0.147  
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16,60.267,rs2908915,-0.183  
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16,79.923,rs17258526,-0.013  
16,79.975,rs1476307,-0.021  
16,79.987,rs2202950,-0.023  
16,80.030,rs16961303,-0.033  
16,80.054,rs1604117,-0.039  
16,80.134,rs4785071,-0.061  
16,80.153,rs1550790,-0.062  
16,80.215,rs12449087,-0.044  
16,80.340,rs2582597,-0.036  
16,80.401,rs1364196,-0.028  
16,80.518,rs7197884,-0.010  
16,80.558,rs1947261,-0.002  
16,80.578,rs1423897,-0.003  
16,80.618,rs11076382,-0.000  
16,80.626,rs1423909,-0.000  
16,80.665,rs11861875,-0.002  
16,80.690,rs1530795,-0.002  
16,80.708,rs1436044,-0.004  
16,80.715,rs1993020,-0.005  
16,80.762,rs11646830,-0.008  
16,80.897,rs1364324,-0.015  
16,80.942,rs8055281,-0.013  
16,81.092,rs7194678,-0.007  
16,81.108,rs985184,-0.003  
16,81.113,rs2639889,-0.002  
16,81.119,rs9933717,-0.001  
16,81.161,rs9921415,0.000  
16,81.167,rs2036801,0.000  
16,81.178,rs1423742,-0.001  
16,81.187,rs1374072,-0.001  
16,81.393,rs4485351,0.000  
16,81.507,rs7204387,-0.000  
16,81.540,rs1344864,-0.000  
16,81.752,rs7196235,-0.002

16,81.815,rs4620978,-0.005  
16,81.828,rs4545840,-0.006  
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16,81.937,rs9302545,-0.009  
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16,81.959,rs2408108,-0.012  
16,81.976,rs12598067,-0.012  
16,82.019,rs12925410,-0.012  
16,82.021,rs4784190,-0.012  
16,82.079,rs1834077,-0.015  
16,82.167,rs288579,-0.023  
16,82.171,rs2938721,-0.022  
16,82.225,rs2911309,-0.033  
16,82.235,rs397599,-0.029  
16,82.244,rs1544811,-0.024  
16,82.272,rs1027277,-0.022  
16,82.436,rs2962080,-0.021  
16,82.492,rs17353186,-0.020  
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16,82.656,rs1605956,-0.025  
16,82.707,rs198017,-0.027  
16,82.759,rs8043700,-0.035  
16,82.789,rs1865826,-0.036  
16,82.927,rs150635,-0.022  
16,82.948,rs1012248,-0.020  
16,82.980,rs16965999,-0.021  
16,83.038,rs13335082,-0.020  
16,83.077,rs9932227,-0.020  
16,83.101,rs1158538,-0.019  
16,83.216,rs11865519,-0.019  
16,83.237,rs7198575,-0.018  
16,83.262,rs12149802,-0.016  
16,83.335,rs322613,-0.017  
16,83.417,rs8056081,-0.016  
16,83.440,rs10500480,-0.013  
16,83.446,rs1461186,-0.011  
16,83.488,rs9928626,-0.007  
16,83.509,rs724051,-0.004  
16,83.637,rs1833937,-0.001  
16,83.753,rs1437145,-0.002  
16,83.870,rs9972785,-0.002  
16,83.882,rs1155216,-0.002  
16,84.037,rs4371172,-0.002  
16,84.097,rs1304340,-0.002  
16,84.241,rs4967856,-0.003  
16,84.319,rs463625,-0.004  
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16,84.527,rs12918618,-0.002  
16,84.603,rs7189335,-0.001  
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16,84.830,rs27616,0.002  
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16,86.289,rs8059194,0.005  
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16,86.700,rs13330891,0.010  
16,86.701,rs12445849,0.010  
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16,86.892,rs3790083,0.007  
16,87.250,rs2070203,0.023  
16,87.275,rs2271047,0.023  
16,87.283,rs4985367,0.015  
16,87.900,rs3826247,0.022  
16,88.012,rs6499515,0.021  
16,88.548,rs7203231,0.015  
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16,88.893,rs3213422,0.012  
16,89.258,rs8060878,0.005  
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16,90.850,rs4788477,0.006  
16,90.860,rs8051826,0.005  
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16,90.892,rs13329908,0.002  
16,90.913,rs11863839,-0.001  
16,90.924,rs11075971,-0.002  
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16,90.986,rs7404068,-0.018  
16,91.013,rs1423730,-0.027  
16,91.023,rs6564635,-0.029  
16,91.030,rs4011585,-0.031  
16,91.038,rs6564865,-0.031  
16,91.041,rs963303,-0.031  
16,91.070,rs2113268,-0.031  
16,91.080,rs11642077,-0.029  
16,91.102,rs1364064,-0.020  
16,91.104,rs12930291,-0.021  
16,91.128,rs1364223,-0.003  
16,91.134,rs1424011,-0.002  
16,91.162,rs8046139,-0.000  
16,91.168,rs4888447,0.000  
16,91.174,rs825838,-0.000  
16,91.178,rs16972157,-0.000  
16,91.180,rs16972167,-0.001  
16,91.181,rs7191888,-0.001  
16,91.196,rs705894,0.000  
16,91.280,rs12920607,-0.001  
16,91.303,rs1038864,-0.000  
16,91.311,rs1492564,-0.001  
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16,91.313,rs388379,-0.001  
16,91.321,rs7192167,-0.000  
16,91.323,rs2019811,-0.000  
16,91.328,rs6564532,-0.000  
16,91.343,rs8063430,-0.001  
16,91.360,rs1873724,-0.005  
16,91.366,rs753808,-0.005  
16,91.388,rs2729613,-0.003  
16,91.391,rs16972698,-0.003  
16,91.406,rs1973619,-0.004  
16,91.416,rs9673361,-0.004  
16,91.502,rs2526057,-0.004  
16,91.510,rs2716555,-0.007  
16,91.513,rs12934360,-0.007  
16,91.528,rs2716606,-0.010  
16,91.546,rs6564902,-0.021  
16,91.581,rs7187327,-0.050  
16,91.591,rs2550466,-0.053  
16,91.614,rs807293,-0.043  
16,91.777,rs11641117,-0.039  
16,91.913,rs4888262,-0.028  
16,91.956,rs9932977,-0.043  
16,91.970,rs886548,-0.045  
16,91.984,rs11643479,-0.047  
16,91.990,rs7185697,-0.047  
16,92.008,rs4556811,-0.048  
16,92.060,rs8049101,-0.067  
16,92.438,rs15819,-0.041  
16,92.771,rs7206003,-0.034  
16,92.903,rs11149807,-0.038  
16,92.966,rs4243110,-0.041  
16,92.987,rs4888367,-0.042  
16,93.011,rs11641943,-0.053  
16,93.013,rs10871308,-0.053  
16,93.106,rs100912,-0.041  
16,93.106,rs247445,-0.051  
16,93.209,rs2865802,-0.050  
16,93.272,rs3096362,-0.052  
16,93.326,rs7501326,-0.076  
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16,93.335,rs7195599,-0.078  
16,93.343,rs12447346,-0.081  
16,93.374,rs11864176,-0.079  
16,93.379,rs7199697,-0.077  
16,93.385,rs1498056,-0.074  
16,93.416,rs977045,-0.090  
16,93.421,rs364635,-0.090  
16,93.615,rs2194295,-0.074  
16,93.647,rs11866636,-0.073  
16,93.672,rs8059365,-0.072  
16,93.961,rs9923061,-0.066  
16,94.371,rs1506836,-0.082  
16,94.570,rs7186058,-0.086  
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16,94.993,rs6564350,-0.067  
16,95.055,rs11149913,-0.060  
16,95.090,rs12599583,-0.046  
16,95.097,rs7186700,-0.046  
16,95.138,rs12926306,-0.045  
16,95.269,rs11149915,-0.042  
16,95.587,rs7192798,-0.043

16,95.629,rs17679567,-0.043  
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16,96.040,rs9319508,-0.048  
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16,96.090,rs2562112,-0.043  
16,96.138,rs8053681,-0.032  
16,96.145,rs12443792,-0.031  
16,96.146,rs11149991,-0.031  
16,96.148,rs768503,-0.031  
16,96.162,rs749754,-0.039  
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16,97.383,rs7204177,-0.059  
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16,98.214,rs280866,-0.060  
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16,98.664,rs10163466,-0.068  
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16,99.372,rs625108,-0.047  
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16,116.361,rs7188901,-0.265  
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16,117.334,rs9319441,-0.086  
16,117.344,rs1424176,-0.087  
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16,117.427,rs9319442,-0.087  
16,117.432,rs17287186,-0.086  
16,117.536,rs8054845,-0.079  
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16,118.211,rs1364114,-0.198  
16,118.292,rs12932980,-0.204  
16,118.420,rs12927653,-0.196  
16,118.448,rs422455,-0.253  
16,118.487,rs12934964,-0.248  
16,118.524,rs10514597,-0.256  
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16,119.009,rs7186171,-0.239  
16,119.070,rs12598185,-0.253  
16,119.146,rs9923900,-0.273  
16,119.200,rs4782865,-0.228  
16,119.257,rs4782574,-0.235  
16,119.362,rs16962458,-0.193  
16,119.382,rs3881,-0.179  
16,119.391,rs1876963,-0.178  
16,119.418,rs11864146,-0.161

16,119.449,rs2875853,-0.146  
16,119.453,rs4782873,-0.142  
16,119.455,rs7184659,-0.143  
16,119.531,rs13332704,-0.191  
16,119.607,rs3817151,-0.201  
16,119.709,rs11647035,-0.200  
16,119.982,rs2288024,-0.178  
16,120.026,rs2875859,-0.174  
16,120.047,rs2303242,-0.169  
16,120.080,rs244887,-0.189  
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16,120.225,rs173430,-0.196  
16,120.237,rs390112,-0.193  
16,120.284,rs244853,-0.172  
16,120.288,rs11649239,-0.172  
16,120.373,rs425422,-0.164  
16,120.419,rs4782918,-0.171  
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16,120.503,rs432666,-0.183  
16,120.574,rs4782612,-0.178  
16,120.640,rs7202571,-0.171  
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16,120.783,rs247820,-0.211  
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16,121.269,rs6564059,-0.169  
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16,121.728,rs12925758,-0.239  
16,122.145,rs4572384,-0.214  
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16,122.473,rs2934468,-0.141  
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16,123.239,rs1875250,-0.065  
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16,123.318,rs4589542,-0.054  
16,123.363,rs4072655,-0.049  
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16,123.719,rs8060135,-0.042  
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16,123.997,rs8060803,-0.068  
16,124.004,rs2326526,-0.067  
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16,124.182,rs4783187,-0.065  
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16,126.035,rs6540225,-0.042  
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16,126.136,rs433322,-0.037  
16,126.176,rs305079,-0.036  
16,126.242,rs11117425,-0.028  
16,126.244,rs8050476,-0.031  
16,126.250,rs305059,-0.042  
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16,126.323,rs4843880,-0.045  
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16,126.379,rs7196849,-0.032  
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16,126.502,rs12443633,-0.041  
16,126.507,rs12600278,-0.040  
16,126.518,rs16940375,-0.037  
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16,127.192,rs4843364,-0.060  
16,127.210,rs16941019,-0.059  
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16,128.774,rs4843529,-0.177  
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16,130.201,rs4843811,-0.223  
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16,130.284,rs8051233,-0.271  
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17,0.189,rs12452527,0.003  
17,0.192,rs7224163,0.003  
17,0.193,rs7219680,0.003  
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17,0.200,rs4617924,0.001  
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17,0.279,rs4073769,-0.000  
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17,11.636,rs16953945,-0.153  
17,11.640,rs12601491,-0.155

17,11.640,rs4790634,-0.155  
17,11.675,rs333117,-0.186  
17,11.697,rs9896111,-0.224  
17,11.708,rs7213707,-0.223  
17,11.716,rs4790638,-0.217  
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17,11.794,rs7216284,-0.241  
17,11.849,rs4597375,-0.279  
17,11.869,rs8076149,-0.284  
17,11.945,rs748694,-0.289  
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17,12.100,rs1050998,-0.250  
17,12.112,rs3826517,-0.258  
17,12.138,rs9890937,-0.294  
17,12.162,rs4790229,-0.305  
17,12.189,rs4790706,-0.309  
17,12.247,rs1052751,-0.352  
17,12.543,rs426475,-0.358  
17,12.653,rs8072032,-0.375  
17,13.300,rs9893995,-0.440  
17,13.338,rs2074437,-0.441  
17,13.405,rs1805453,-0.443  
17,13.474,rs11651270,-0.445  
17,13.630,rs2733366,-0.451  
17,13.688,rs925599,-0.451  
17,13.728,rs2716932,-0.457  
17,13.888,rs2058364,-0.479  
17,14.578,rs4985692,-0.554  
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17,14.915,rs7218600,-0.638  
17,14.930,rs1362765,-0.637  
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17,15.013,rs11078592,-0.640  
17,15.182,rs17178900,-0.636  
17,15.302,rs7218232,-0.604  
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17,15.687,rs12936643,-0.567  
17,15.982,rs1183141,-0.566  
17,15.997,rs967787,-0.567  
17,16.222,rs1970983,-0.622  
17,16.235,rs9907608,-0.633  
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17,16.288,rs16955393,-0.705  
17,16.307,rs8064677,-0.745  
17,16.319,rs9902061,-0.744  
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17,16.419,rs7213280,-0.800  
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17,16.889,rs4796449,-0.940  
17,16.910,rs6502938,-0.940  
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17,18.415,rs218685,-0.725  
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17,18.809,rs906749,-0.679  
17,18.885,rs1509121,-0.674  
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17,19.504,rs7211486,-0.544  
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17,19.908,rs17805145,-0.471  
17,19.986,rs11653054,-0.454  
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17,20.027,rs12951306,-0.429  
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17,20.205,rs11650232,-0.429  
17,20.477,rs3744405,-0.433  
17,20.503,rs11652407,-0.455  
17,20.510,rs2270981,-0.458  
17,20.540,rs4796407,-0.493  
17,20.553,rs17732672,-0.502  
17,20.581,rs7219773,-0.499  
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17,20.648,rs3853818,-0.441  
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17,20.784,rs10438740,-0.429  
17,20.855,rs2955617,-0.441  
17,20.879,rs1641510,-0.440  
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17,20.936,rs7141,-0.486  
17,20.963,rs839721,-0.496  
17,20.973,rs8077824,-0.499  
17,21.015,rs17806045,-0.479  
17,21.062,rs872346,-0.455  
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17,21.063,rs7213894,-0.456  
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17,21.354,rs8073913,-0.589  
17,21.371,rs12603935,-0.616  
17,21.391,rs4792199,-0.655  
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17,21.413,rs7215658,-0.594  
17,21.532,rs7503353,-0.671  
17,21.687,rs1861952,-0.786  
17,21.695,rs8069620,-0.788  
17,21.741,rs1695213,-0.801  
17,21.790,rs12150003,-0.776  
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17,22.208,rs1579523,-0.867  
17,22.213,rs8068795,-0.866  
17,22.220,rs9897780,-0.865  
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17,22.786,rs8071193,-0.915

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17,23.091,rs9912143,-0.961  
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17,23.482,rs411268,-0.960  
17,23.488,rs427554,-0.959  
17,23.542,rs9895992,-0.955  
17,23.611,rs10491087,-0.917  
17,23.685,rs613229,-0.895  
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17,24.554,rs9897341,-0.820  
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17,24.967,rs2551799,-1.045  
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17,25.109,rs11658644,-1.057  
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17,25.532,rs8073431,-1.101  
17,25.567,rs7215204,-1.106  
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17,25.827,rs4791838,-1.154  
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17,27.321,rs185677,-1.038  
17,27.422,rs8067933,-1.046  
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17,29.171,rs1476440,-0.729  
17,29.222,rs739353,-0.740  
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17,29.341,rs7219805,-0.689  
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17,29.362,rs6503290,-0.697  
17,29.369,rs11870887,-0.699  
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17,29.941,rs4791962,-1.114  
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17,50.234,rs1320252,-0.157  
17,50.259,rs4985855,-0.244  
17,50.306,rs9889782,-0.239  
17,50.336,rs12453531,-0.229  
17,50.343,rs7406009,-0.226  
17,50.563,rs2169915,-0.217  
17,50.715,rs4889705,-0.229  
17,52.849,rs7223436,-0.282  
17,52.867,rs7207347,-0.283  
17,52.920,rs4239230,-0.263  
17,52.998,rs940015,-0.273  
17,53.009,rs2948527,-0.275  
17,53.011,rs2945387,-0.275  
17,53.026,rs2948519,-0.279  
17,53.050,rs12945695,-0.266  
17,53.101,rs4795430,-0.240

17,53.113,rs2027993,-0.238  
17,53.287,rs3764866,-0.240  
17,53.340,rs2191090,-0.240  
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17,54.060,rs8081659,-0.199  
17,54.331,rs4794848,-0.182  
17,54.467,rs7212295,-0.172  
17,54.877,rs8077048,-0.195  
17,54.893,rs11868474,-0.196  
17,55.324,rs542939,-0.192  
17,55.364,rs3744626,-0.189  
17,55.647,rs12941382,-0.182  
17,56.087,rs6354,-0.182  
17,56.215,rs2129785,-0.167  
17,56.438,rs3110093,-0.143  
17,57.167,rs216457,-0.117  
17,58.640,rs3760318,-0.115  
17,58.801,rs9915181,-0.114  
17,60.734,rs4258685,-0.097  
17,60.779,rs7406402,-0.097  
17,60.889,rs178858,-0.095  
17,61.109,rs9909944,-0.111  
17,61.241,rs1548471,-0.104  
17,61.424,rs223128,-0.081  
17,61.452,rs8075034,-0.080  
17,61.511,rs223138,-0.074  
17,62.231,rs894725,-0.091  
17,62.477,rs12162135,-0.066  
17,62.586,rs10775410,-0.057  
17,62.592,rs17733497,-0.055  
17,62.644,rs225206,-0.042  
17,62.657,rs4795708,-0.039  
17,62.726,rs11868228,-0.025  
17,62.768,rs321183,-0.022  
17,63.334,rs4795729,-0.011  
17,63.344,rs2188952,-0.014  
17,63.351,rs28958,-0.017  
17,63.370,rs12938484,-0.014  
17,63.415,rs16589,-0.009  
17,63.515,rs11657055,-0.005  
17,63.557,rs9895456,-0.002  
17,63.568,rs9889583,-0.002  
17,63.571,rs7212997,-0.002  
17,63.573,rs319774,-0.002  
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17,63.909,rs2036535,0.001  
17,63.919,rs1553494,0.002  
17,63.941,rs1123025,0.001  
17,63.988,rs7214958,0.001  
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17,64.253,rs10512451,0.007  
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17,64.314,rs9908295,0.009  
17,64.333,rs2951665,0.009  
17,64.389,rs10512454,0.006  
17,64.477,rs6505380,0.005  
17,64.541,rs2881782,0.006  
17,64.609,rs317342,0.003  
17,64.684,rs317373,0.004  
17,64.694,rs11867369,0.004  
17,64.761,rs11869615,0.004  
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17,64.888,rs8070999,0.004  
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17,65.322,rs11080254,-0.001  
17,65.332,rs2097761,-0.002  
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17,66.314,rs1482103,-0.149  
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17,67.133,rs2063979,-0.187  
17,67.208,rs7217473,-0.170  
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17,67.372,rs854658,-0.159  
17,67.412,rs854672,-0.143  
17,67.535,rs854462,-0.142  
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17,68.221,rs757010,-0.156  
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17,68.648,rs11870749,-0.267  
17,68.745,rs9906543,-0.203  
17,68.924,rs4795194,-0.166  
17,69.015,rs853231,-0.149  
17,69.083,rs763512,-0.133  
17,69.103,rs1048701,-0.125  
17,69.194,rs12936144,-0.115  
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17,69.226,rs2285741,-0.135  
17,69.231,rs1859211,-0.137  
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17,70.151,rs979607,-0.359  
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17,71.630,rs749906,-0.230  
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17,71.765,rs2429552,-0.247  
17,71.804,rs981684,-0.255  
17,71.817,rs7219451,-0.252  
17,71.865,rs7212483,-0.250  
17,71.869,rs2315504,-0.250  
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17,89.246,rs11079282,-0.119  
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17,89.292,rs7222429,-0.126  
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17,89.437,rs11868362,-0.160  
17,89.441,rs12951291,-0.159  
17,89.443,rs2197252,-0.159  
17,89.447,rs11659021,-0.134  
17,89.456,rs11657292,-0.130  
17,89.463,rs9915128,-0.103  
17,89.484,rs277070,-0.065  
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17,89.510,rs1024819,-0.023  
17,89.523,rs9915530,-0.032  
17,89.527,rs9898481,-0.030  
17,89.538,rs8076384,-0.029  
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17,89.718,rs181241,-0.060  
17,89.735,rs1468574,-0.059  
17,89.745,rs917606,-0.045  
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17,89.805,rs2526378,-0.055  
17,89.814,rs757485,-0.056  
17,89.937,rs368243,-0.045  
17,91.003,rs3744383,-0.061  
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17,91.301,rs6503919,-0.059  
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17,93.140,rs3785848,-0.179  
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17,93.150,rs9907597,-0.157  
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17,93.199,rs7219870,-0.143  
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17,93.217,rs7214481,-0.148  
17,93.221,rs17601584,-0.108  
17,93.227,rs744651,-0.137  
17,93.232,rs4968435,-0.148  
17,93.233,rs4968568,-0.149  
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17,93.332,rs1858990,-0.165  
17,93.456,rs2048718,-0.175  
17,93.570,rs10512493,-0.161  
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17,98.866,rs7210851,-0.198  
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17,99.794,rs8069022,-0.171  
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17,100.218,rs8081512,-0.134  
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17,100.278,rs4303580,-0.142  
17,100.377,rs11656099,-0.164  
17,100.402,rs8464,-0.161  
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17,100.453,rs1476813,-0.151  
17,100.497,rs3848413,-0.145  
17,100.529,rs1002327,-0.144  
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17,100.591,rs17644943,-0.171  
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17,101.460,rs12939848,-0.216  
17,101.515,rs9902423,-0.166  
17,101.547,rs4293416,-0.165  
17,101.558,rs4791296,-0.165  
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17,101.683,rs1368582,-0.153

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17,102.247,rs12453460,-0.172  
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17,103.757,rs4968897,-0.113  
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17,103.956,rs4968810,-0.107  
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17,105.098,rs2440134,-0.050  
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17,105.112,rs9895446,-0.061  
17,105.157,rs2521348,-0.053  
17,105.197,rs11869376,-0.059  
17,105.242,rs9916229,-0.067  
17,105.275,rs16974218,-0.068  
17,105.648,rs16974415,-0.079  
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17,105.850,rs12948136,-0.096  
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17,108.458,rs9907787,-0.190  
17,108.465,rs16976207,-0.191  
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17,108.643,rs1015657,-0.190  
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17,109.596,rs983085,-0.255  
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17,131.890,rs7221341,-0.700  
17,132.040,rs17561950,-0.551  
17,132.154,rs632058,-0.438  
17,132.157,rs11649879,-0.441  
17,132.197,rs2289754,-0.479  
17,132.240,rs7405830,-0.508  
17,132.279,rs11077372,-0.539  
17,132.304,rs930572,-0.559  
17,132.325,rs1867475,-0.568  
17,132.333,rs12600766,-0.571  
17,132.361,rs642612,-0.576  
17,132.411,rs4969151,-0.603  
17,132.447,rs11867901,-0.641  
17,132.454,rs1108367,-0.648  
17,132.468,rs9302881,-0.707  
17,132.502,rs7222201,-0.822  
17,132.503,rs9890266,-0.822  
17,132.551,rs4969205,-0.765  
17,132.585,rs12953053,-0.714  
17,132.589,rs9889754,-0.708  
17,132.590,rs4796808,-0.706  
17,133.006,rs12944556,-0.568  
17,133.078,rs1110274,-0.545  
17,133.222,rs9900972,-0.532  
17,133.230,rs7218237,-0.531  
17,133.285,rs3744787,-0.523  
17,133.295,rs4789936,-0.521  
17,133.398,rs7216022,-0.544  
17,133.399,rs4789921,-0.544  
17,133.474,rs11077405,-0.554  
17,133.661,rs3803780,-0.577  
17,133.787,rs7212486,-0.588  
17,133.855,rs2007979,-0.572  
17,133.888,rs7214618,-0.584  
17,133.899,rs7211056,-0.586  
17,133.909,rs1675273,-0.647  
17,133.910,rs4789950,-0.652  
17,134.013,rs2703519,-0.557  
17,134.026,rs2703549,-0.514  
17,134.054,rs4789956,-0.563

17,134.073,rs2606193,-0.596  
17,134.096,rs17674253,-0.670  
17,134.104,rs12603684,-0.654  
17,134.120,rs4789963,-0.625  
17,134.144,rs11656929,-0.628  
17,134.152,rs12051618,-0.629  
17,134.199,rs12603748,-0.631  
17,134.242,rs9906538,-0.615  
17,134.266,rs11658702,-0.558  
17,134.292,rs4790001,-0.504  
17,134.321,rs11871435,-0.483  
17,134.331,rs12949118,-0.490  
17,134.357,rs12600765,-0.505  
17,134.454,rs4790018,-0.431  
17,134.462,rs7215470,-0.440  
17,134.465,rs4790022,-0.443  
17,134.481,rs4789892,-0.490  
17,134.486,rs4790023,-0.504  
17,134.489,rs7208287,-0.513  
17,134.500,rs7225361,-0.514  
17,134.519,rs7225663,-0.471  
17,134.551,rs2377405,-0.451  
17,134.597,rs8075392,-0.480  
17,134.625,rs2137772,-0.467  
17,134.652,rs7224144,-0.449  
17,134.695,rs871739,-0.481  
17,134.748,rs296143,-0.443  
17,134.885,rs7216806,-0.402  
17,134.901,rs4073995,-0.396  
17,135.330,rs9900295,-0.140  
17,135.431,rs8064780,-0.106  
17,135.434,rs7217395,-0.105  
17,135.526,rs2587507,-0.097  
17,135.548,rs9898405,-0.095  
17,135.667,rs8078624,-0.094  
17,135.691,rs2362396,-0.092  
17,135.720,rs8069143,-0.081  
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17,135.783,rs1696784,-0.057  
17,135.842,rs1124736,-0.058  
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17,135.873,rs1285293,-0.061  
17,135.890,rs7211532,-0.068  
17,135.947,rs4441315,-0.070  
17,136.005,rs4074023,-0.060  
17,136.257,rs2304851,-0.062  
17,136.335,rs8077849,-0.063  
17,136.444,rs12602462,-0.064  
17,136.494,rs8068433,-0.055  
17,136.528,rs11652075,-0.052  
17,136.543,rs9894254,-0.050  
17,136.614,rs6420489,-0.040  
17,136.719,rs7219131,-0.037  
17,137.005,rs3185057,-0.037  
17,137.016,rs8359,-0.037  
17,137.143,rs9914610,-0.037  
17,137.190,rs4563088,-0.026  
17,137.427,rs7209040,-0.018  
17,137.773,rs9901366,-0.007  
17,137.802,rs12948054,-0.007  
17,138.083,rs2672886,-0.005

17,138.103,rs2048753,-0.005  
17,138.114,rs7221948,-0.005  
17,138.178,rs2589158,-0.004  
17,138.202,rs2672893,-0.003  
17,138.219,rs2672890,-0.002  
17,138.256,rs6565484,-0.001  
17,138.374,rs9897968,-0.002  
17,138.491,rs1062935,-0.006  
17,138.572,rs8081168,-0.009  
17,138.626,rs7225916,-0.015  
17,138.662,rs4969349,-0.021  
17,138.715,rs8079626,-0.038  
17,138.738,rs9901648,-0.044  
17,138.760,rs4076037,-0.038  
17,138.877,rs4969391,-0.042  
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17,138.952,rs4969259,-0.030  
17,138.988,rs7209950,-0.022  
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17,139.138,rs2659029,-0.010  
17,139.220,rs6565548,-0.006  
17,139.380,rs7212109,-0.008  
17,139.546,rs8073897,-0.003  
17,139.588,rs8070792,-0.002  
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17,139.855,rs8079717,-0.000  
17,139.903,rs7211870,-0.000  
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17,141.446,rs11077969,0.001  
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17,141.807,rs4789846,0.010  
17,141.971,rs4789763,0.019  
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17,142.403,rs7221018,0.031  
17,142.466,rs9894993,0.053  
17,142.667,rs3794716,0.063  
17,142.755,rs4789814,0.061  
17,142.806,rs2011631,0.072  
17,142.844,rs9912932,0.081  
17,143.181,rs868203,0.087  
17,143.222,rs2677919,0.087  
17,143.512,rs3785512,0.099  
17,143.638,rs1551628,0.101  
17,143.781,rs7405957,0.104  
17,143.870,rs11652770,0.105  
17,143.911,rs6502043,0.105  
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18,0.062,rs7239756,-0.008  
18,0.094,rs8088001,-0.008  
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18,0.223,rs505110,-0.011  
18,0.226,rs18485,-0.011  
18,0.229,rs11081025,-0.012

18,0.260,rs7236553,-0.010  
18,0.280,rs8086522,-0.009  
18,0.307,rs1296194,-0.011  
18,0.313,rs618671,-0.012  
18,0.331,rs3929952,-0.033  
18,0.371,rs9959369,-0.043  
18,0.448,rs4798145,-0.045  
18,0.488,rs2621178,-0.047  
18,0.498,rs2621201,-0.048  
18,0.557,rs12962668,-0.052  
18,0.648,rs2846662,-0.064  
18,0.697,rs1564419,-0.085  
18,0.735,rs959015,-0.076  
18,0.796,rs7235748,-0.070  
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18,0.977,rs514253,-0.049  
18,1.038,rs16947340,-0.041  
18,1.044,rs505171,-0.040  
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18,1.053,rs9947236,-0.051  
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18,1.059,rs11660343,-0.041  
18,1.081,rs483655,-0.048  
18,1.104,rs518471,-0.053  
18,1.144,rs1004961,-0.094  
18,1.205,rs505140,-0.109  
18,1.274,rs485562,-0.094  
18,1.308,rs13381189,-0.098  
18,1.393,rs13381806,-0.113  
18,1.426,rs9966612,-0.108  
18,1.458,rs2244500,-0.096  
18,1.531,rs2847154,-0.094  
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18,1.900,rs10468774,-0.051  
18,1.967,rs7244120,-0.041  
18,1.980,rs1291183,-0.031  
18,1.997,rs1544241,-0.029  
18,2.093,rs4797325,-0.016  
18,2.101,rs2040176,-0.016  
18,2.124,rs17500692,-0.015  
18,2.151,rs1610037,-0.014  
18,2.283,rs8090931,-0.026  
18,2.307,rs9964808,-0.030  
18,2.422,rs789071,-0.032  
18,2.434,rs1523398,-0.032  
18,2.447,rs7232873,-0.032  
18,2.527,rs1022177,-0.034  
18,2.541,rs12953819,-0.034  
18,2.582,rs9951158,-0.035  
18,2.658,rs304398,-0.030  
18,2.946,rs9954959,-0.024  
18,3.001,rs12709528,-0.024  
18,3.752,rs1395956,-0.036  
18,3.851,rs1941669,-0.033  
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18,5.573,rs8089407,-0.084  
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18,6.475,rs3914792,-0.028  
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18,7.256,rs8092725,-0.100  
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18,7.550,rs1893152,-0.085  
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18,7.962,rs3745013,-0.132  
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18,8.278,rs1539791,-0.153  
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18,9.094,rs9951849,-0.087  
18,9.116,rs10853291,-0.086  
18,9.152,rs11872867,-0.084  
18,9.164,rs4340411,-0.083  
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18,9.245,rs717183,-0.103  
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18,9.377,rs1662304,-0.108  
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18,9.450,rs8092567,-0.146  
18,9.473,rs2028636,-0.154  
18,9.494,rs4798089,-0.138  
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18,9.611,rs238533,-0.063  
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18,11.969,rs1442378,-0.007



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18,23.089,rs541770,0.113  
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18,23.163,rs4239330,0.075  
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18,23.587,rs2065551,0.036  
18,23.607,rs1466421,0.039

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18,23.962,rs450015,0.036  
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18,24.954,rs12966566,0.109  
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18,25.006,rs16951664,0.121  
18,25.369,rs555107,0.084  
18,25.371,rs497065,0.084  
18,25.413,rs12605481,0.078  
18,25.509,rs956551,0.065  
18,25.675,rs1941137,0.060  
18,25.879,rs8099410,0.035  
18,25.904,rs661059,0.024  
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18,26.303,rs1992373,0.002  
18,26.317,rs1443604,0.006  
18,26.318,rs16952588,0.006  
18,26.462,rs12960805,0.005  
18,26.816,rs567595,0.001  
18,26.817,rs1468707,0.001  
18,26.901,rs1942956,0.001  
18,26.923,rs3794959,0.001  
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18,27.320,rs6506569,0.011  
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18,27.508,rs2005039,0.015  
18,27.516,rs686693,0.016  
18,27.531,rs8094662,0.015  
18,27.640,rs635269,0.010  
18,27.684,rs675417,0.006  
18,27.731,rs17493589,0.006  
18,27.770,rs658069,0.002  
18,27.792,rs12964134,0.001  
18,27.795,rs4798645,0.001  
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18,27.907,rs2156472,0.010  
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18,29.310,rs4798736,0.049  
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18,31.425,rs7244365,0.014  
18,31.506,rs8083190,0.015  
18,31.596,rs613536,0.007  
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18,32.166,rs661556,0.035  
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18,33.141,rs11080389,0.087  
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18,34.172,rs206503,0.135  
18,34.176,rs206501,0.137  
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18,34.603,rs484583,0.231  
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18,59.710,rs8091163,0.173  
18,59.711,rs4799869,0.173  
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18,59.725,rs685435,0.171  
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18,59.968,rs9948912,0.163  
18,59.969,rs1786068,0.163  
18,59.975,rs3865390,0.178  
18,59.977,rs3889769,0.178  
18,59.987,rs1786818,0.178  
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18,59.990,rs1954869,0.177  
18,59.993,rs1893371,0.173  
18,59.994,rs1786802,0.178  
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18,89.262,rs2957128,0.004  
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18,90.557,rs4987853,0.018  
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18,90.563,rs4456611,0.018  
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18,90.794,rs10163809,0.033  
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18,91.278,rs3853683,0.045  
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18,92.036,rs2162352,0.045  
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18,92.661,rs2959470,0.114  
18,92.691,rs8094758,0.101  
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18,92.762,rs1506232,0.114  
18,92.774,rs7239193,0.124  
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18,92.861,rs637644,0.152  
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18,92.969,rs4941343,0.300  
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18,95.579,rs12957557,0.377  
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18,96.295,rs894910,0.361  
18,96.301,rs17077611,0.318  
18,96.497,rs4127445,0.295  
18,97.087,rs654875,0.290  
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18,97.766,rs8096215,0.235  
18,97.785,rs13381776,0.228  
18,97.801,rs1016443,0.223  
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18,97.893,rs582576,0.283  
18,97.894,rs7504149,0.255  
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18,97.987,rs17802226,0.177  
18,98.078,rs481796,0.167  
18,98.098,rs1400402,0.148  
18,98.121,rs3897843,0.136  
18,98.153,rs2319554,0.113  
18,98.166,rs7229736,0.089  
18,98.167,rs1547548,0.072  
18,98.211,rs979317,0.056  
18,98.309,rs309251,0.034  
18,98.319,rs17079623,0.032  
18,98.322,rs2048329,0.031  
18,98.359,rs677592,0.028  
18,98.395,rs590974,0.026  
18,98.434,rs1942295,0.030  
18,98.467,rs1986337,0.030  
18,98.481,rs10445526,0.029  
18,98.586,rs11873439,0.018  
18,98.612,rs3891810,0.016  
18,98.665,rs495236,0.014  
18,98.691,rs547660,0.015  
18,98.694,rs1472870,0.016  
18,98.716,rs10513958,0.015  
18,98.754,rs1354966,0.012  
18,98.779,rs4359550,0.020  
18,98.797,rs1532662,0.019  
18,98.817,rs1354065,0.019  
18,98.913,rs2034021,0.021  
18,98.923,rs8083908,0.020  
18,98.963,rs8087067,0.022  
18,98.971,rs4491635,0.023  
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18,99.303,rs882114,0.014  
18,99.311,rs12104016,0.013

18,99.337,rs8086400,0.011  
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18,100.143,rs1484735,0.010  
18,100.180,rs7234673,0.012  
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18,100.198,rs3943675,0.007  
18,100.210,rs2581690,0.009  
18,100.227,rs2366188,0.010  
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18,102.105,rs2226737,-0.004  
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18,121.811,rs643444,-0.719  
18,121.822,rs673112,-0.708  
18,121.846,rs12607049,-0.685  
18,121.888,rs8097843,-0.731  
18,121.895,rs7232988,-0.717  
18,121.949,rs6506837,-0.670  
18,122.067,rs2941853,-0.598  
18,122.070,rs2941812,-0.595  
18,122.089,rs8092008,-0.557  
18,122.130,rs2015066,-0.481  
18,122.136,rs9945493,-0.478  
18,122.169,rs6506853,-0.460  
18,122.183,rs1113678,-0.455  
18,122.242,rs4799238,-0.431  
18,122.249,rs2927260,-0.431  
18,122.263,rs6506869,-0.431  
18,122.278,rs4030885,-0.426  
18,122.317,rs9957519,-0.414  
18,122.343,rs558191,-0.421  
18,122.605,rs8082857,-0.499  
18,122.664,rs12458154,-0.470  
18,122.728,rs549752,-0.397  
18,122.734,rs8091180,-0.390  
18,122.750,rs4799055,-0.353  
18,122.767,rs306872,-0.351  
18,122.807,rs1667667,-0.400  
18,122.835,rs177820,-0.438  
18,122.846,rs9518,-0.443  
18,122.848,rs3852836,-0.442  
18,122.856,rs4799062,-0.437  
18,122.880,rs3852840,-0.439  
18,122.903,rs4239343,-0.432  
18,122.910,rs748938,-0.446  
18,122.914,rs3848478,-0.447  
18,123.073,rs585811,-0.422  
18,123.085,rs526260,-0.412  
18,123.115,rs2126083,-0.406

18,123.226,rs10853393,-0.382  
18,123.236,rs8083927,-0.416  
18,123.313,rs3744872,-0.418  
18,123.349,rs488292,-0.418  
18,123.461,rs7243052,-0.419  
19,0.162,rs11878692,-0.005  
19,0.182,rs9304882,-0.005  
19,0.284,rs3764640,-0.010  
19,0.466,rs2301759,-0.010  
19,0.607,rs968698,-0.010  
19,0.831,rs1558130,-0.007  
19,1.155,rs2285972,-0.003  
19,1.471,rs3786978,-0.004  
19,2.001,rs197198,-0.012  
19,2.120,rs2292453,-0.030  
19,2.183,rs1875960,-0.036  
19,2.187,rs11878864,-0.036  
19,2.429,rs7252741,-0.040  
19,2.831,rs1860661,-0.079  
19,2.967,rs12460684,-0.067  
19,3.089,rs11084906,-0.067  
19,3.191,rs2041218,-0.062  
19,3.234,rs4807953,-0.058  
19,3.543,rs4807140,-0.080  
19,3.606,rs3764606,-0.080  
19,3.670,rs8100856,-0.079  
19,4.384,rs4807169,-0.057  
19,4.397,rs11084919,-0.057  
19,4.417,rs7259201,-0.056  
19,4.620,rs2041120,-0.054  
19,4.918,rs10421179,-0.049  
19,5.096,rs1599860,-0.054  
19,5.264,rs758145,-0.081  
19,5.302,rs7256023,-0.085  
19,5.552,rs2072304,-0.112  
19,5.578,rs1017084,-0.113  
19,5.895,rs2864419,-0.127  
19,6.132,rs12459507,-0.132  
19,6.214,rs7253181,-0.143  
19,6.338,rs4806834,-0.164  
19,6.420,rs2523177,-0.168  
19,6.836,rs12982784,-0.193  
19,6.916,rs757322,-0.196  
19,7.162,rs7248779,-0.205  
19,7.269,rs735911,-0.194  
19,7.622,rs13345846,-0.141  
19,7.634,rs11670333,-0.139  
19,7.681,rs4807284,-0.132  
19,7.716,rs8113001,-0.126  
19,7.718,rs8100484,-0.126  
19,7.749,rs10416524,-0.178  
19,7.790,rs17755100,-0.194  
19,7.807,rs12985186,-0.194  
19,7.912,rs8113423,-0.175  
19,7.943,rs887270,-0.172  
19,7.997,rs12975010,-0.199  
19,8.015,rs10416033,-0.204  
19,8.081,rs3936139,-0.195  
19,8.134,rs2965208,-0.168  
19,8.159,rs2873409,-0.149  
19,8.193,rs10411547,-0.139

19,8.199,rs7257500,-0.138  
19,8.312,rs9630890,-0.166  
19,8.385,rs2110119,-0.184  
19,8.647,rs4806874,-0.214  
19,9.042,rs1610062,-0.275  
19,9.053,rs4806877,-0.276  
19,9.154,rs9304900,-0.267  
19,9.319,rs2288958,-0.238  
19,9.380,rs3786948,-0.257  
19,9.453,rs11666431,-0.270  
19,9.488,rs8111642,-0.226  
19,9.542,rs11667371,-0.231  
19,9.647,rs216276,-0.331  
19,9.653,rs83488,-0.336  
19,9.664,rs11084990,-0.338  
19,9.679,rs3760961,-0.347  
19,9.757,rs1688128,-0.367  
19,9.950,rs7938,-0.332  
19,10.031,rs367825,-0.330  
19,10.155,rs8109448,-0.317  
19,10.371,rs2238625,-0.333  
19,10.455,rs3746069,-0.362  
19,10.611,rs310686,-0.413  
19,10.636,rs1465245,-0.429  
19,10.792,rs2074864,-0.482  
19,10.793,rs2074865,-0.482  
19,10.876,rs1682809,-0.499  
19,10.987,rs3746070,-0.490  
19,11.182,rs426633,-0.462  
19,11.364,rs17696630,-0.450  
19,11.423,rs11879556,-0.469  
19,11.474,rs313784,-0.448  
19,11.475,rs17674346,-0.449  
19,11.493,rs7252291,-0.477  
19,11.525,rs4807437,-0.528  
19,11.572,rs4807441,-0.574  
19,11.635,rs10405694,-0.623  
19,11.677,rs4807451,-0.643  
19,11.742,rs718202,-0.653  
19,11.872,rs4806933,-0.706  
19,11.933,rs4806934,-0.741  
19,12.238,rs4807485,-0.763  
19,12.300,rs7248491,-0.800  
19,12.394,rs11085023,-0.852  
19,12.444,rs8113232,-0.902  
19,12.460,rs2108389,-0.917  
19,12.575,rs10412882,-0.910  
19,12.689,rs757454,-0.904  
19,12.742,rs11672559,-0.894  
19,12.814,rs740873,-0.897  
19,12.972,rs501168,-0.871  
19,13.027,rs13960,-0.857  
19,13.125,rs4807511,-0.857  
19,13.173,rs2285957,-0.845  
19,13.336,rs11670741,-0.829  
19,13.398,rs10401177,-0.818  
19,13.451,rs11085044,-0.771  
19,13.508,rs3810374,-0.750  
19,13.574,rs10412199,-0.718  
19,13.592,rs2304191,-0.733  
19,13.628,rs10406174,-0.760

19,13.850,rs3760903,-0.679  
19,14.140,rs350912,-0.594  
19,14.207,rs12459940,-0.585  
19,14.278,rs350825,-0.572  
19,14.358,rs16992288,-0.586  
19,14.412,rs352493,-0.596  
19,14.416,rs4807546,-0.597  
19,14.428,rs352494,-0.605  
19,14.523,rs8110516,-0.652  
19,14.620,rs353694,-0.718  
19,14.768,rs888930,-0.747  
19,14.959,rs8102860,-0.760  
19,15.235,rs243372,-0.697  
19,15.358,rs10421126,-0.723  
19,15.428,rs892161,-0.733  
19,15.556,rs11085080,-0.739  
19,15.570,rs966384,-0.741  
19,15.576,rs4806985,-0.744  
19,15.622,rs1610093,-0.760  
19,15.625,rs10409783,-0.761  
19,15.637,rs16992439,-0.767  
19,15.637,rs7249087,-0.767  
19,15.757,rs7255247,-0.824  
19,15.883,rs11880374,-0.883  
19,15.896,rs9917028,-0.885  
19,16.129,rs7251000,-0.880  
19,16.302,rs879564,-0.954  
19,16.347,rs11085096,-0.969  
19,16.470,rs4807650,-0.999  
19,16.532,rs2779180,-0.940  
19,16.567,rs1055919,-0.934  
19,16.642,rs8105711,-0.924  
19,16.690,rs2656938,-0.861  
19,16.739,rs4807664,-0.847  
19,16.811,rs262566,-0.870  
19,16.834,rs2250978,-0.864  
19,16.854,rs2307204,-0.858  
19,17.135,rs2613766,-0.783  
19,17.440,rs2620812,-0.777  
19,17.557,rs2379609,-0.920  
19,17.583,rs10415488,-0.923  
19,17.600,rs886936,-0.932  
19,17.612,rs4807016,-0.939  
19,17.753,rs1558138,-0.945  
19,17.778,rs3948683,-0.940  
19,17.779,rs16992922,-0.943  
19,17.824,rs1207118,-0.973  
19,17.850,rs875552,-0.960  
19,17.863,rs2082465,-0.965  
19,17.908,rs8105522,-0.972  
19,17.940,rs4807030,-0.918  
19,18.006,rs6510851,-0.948  
19,18.024,rs1384936,-0.960  
19,18.031,rs8111234,-0.965  
19,18.104,rs8107825,-1.070  
19,18.139,rs668692,-1.066  
19,18.163,rs797544,-1.088  
19,18.252,rs675136,-1.056  
19,18.270,rs385839,-1.043  
19,18.369,rs2288947,-1.050  
19,18.379,rs8105637,-1.048

19,18.482,rs806705,-1.039  
19,18.740,rs2436508,-1.045  
19,18.924,rs3826798,-1.081  
19,18.962,rs6510857,-1.073  
19,19.042,rs778805,-1.050  
19,19.061,rs3760776,-1.053  
19,19.125,rs10426709,-1.106  
19,19.131,rs778972,-1.113  
19,19.220,rs8108064,-1.078  
19,19.319,rs7258475,-1.059  
19,19.374,rs628271,-1.047  
19,19.439,rs731773,-1.031  
19,19.470,rs530942,-1.072  
19,19.545,rs673153,-1.092  
19,19.687,rs9304930,-1.070  
19,19.867,rs2335629,-1.035  
19,20.128,rs1560694,-0.990  
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19,20.305,rs872664,-0.902  
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19,20.903,rs8111177,-0.842  
19,20.952,rs1663803,-0.872  
19,20.997,rs3852883,-0.898  
19,21.023,rs371164,-0.901  
19,21.254,rs348374,-0.736  
19,21.292,rs422981,-0.681  
19,21.323,rs348347,-0.659  
19,21.363,rs1115478,-0.670  
19,21.419,rs344587,-0.669  
19,21.429,rs344589,-0.666  
19,21.431,rs17703895,-0.665  
19,21.504,rs344580,-0.658  
19,21.621,rs12462065,-0.672  
19,21.625,rs426374,-0.672  
19,21.638,rs447135,-0.673  
19,21.729,rs344560,-0.619  
19,21.744,rs1077667,-0.610  
19,21.775,rs379527,-0.586  
19,21.891,rs11672613,-0.518  
19,21.944,rs2250656,-0.487  
19,22.042,rs339408,-0.486  
19,22.051,rs339404,-0.488  
19,22.091,rs2305806,-0.479  
19,22.115,rs7258236,-0.459  
19,22.168,rs682626,-0.486  
19,22.202,rs568259,-0.511  
19,22.213,rs6510922,-0.513  
19,22.258,rs2660489,-0.520  
19,22.307,rs12610223,-0.510  
19,22.337,rs4807101,-0.471  
19,22.362,rs347033,-0.458  
19,22.400,rs3786688,-0.474  
19,22.405,rs11668094,-0.471  
19,22.467,rs331679,-0.491  
19,22.659,rs330876,-0.508  
19,22.788,rs3895916,-0.490  
19,22.950,rs625183,-0.407  
19,23.005,rs2035970,-0.476  
19,23.080,rs11665875,-0.472  
19,23.356,rs2352958,-0.414

19,23.369,rs2913877,-0.409  
19,23.417,rs2967657,-0.397  
19,23.444,rs1864193,-0.390  
19,23.448,rs3745550,-0.391  
19,23.503,rs11672739,-0.402  
19,23.503,rs6510949,-0.402  
19,23.525,rs2229431,-0.401  
19,23.536,rs8103483,-0.400  
19,23.610,rs7251963,-0.390  
19,23.666,rs2860183,-0.380  
19,23.765,rs7508679,-0.392  
19,23.815,rs3852876,-0.401  
19,23.930,rs7254921,-0.413  
19,24.070,rs11879985,-0.389  
19,24.083,rs4804602,-0.386  
19,24.224,rs11880140,-0.336  
19,24.266,rs3745356,-0.322  
19,24.291,rs1363938,-0.295  
19,24.349,rs661821,-0.287  
19,24.412,rs591040,-0.246  
19,24.465,rs577029,-0.209  
19,24.492,rs10418152,-0.193  
19,24.496,rs7260296,-0.163  
19,24.653,rs794084,-0.142  
19,24.772,rs3745367,-0.147  
19,24.848,rs2277989,-0.144  
19,24.854,rs10415518,-0.147  
19,24.860,rs1990975,-0.148  
19,24.902,rs10518270,-0.161  
19,24.936,rs1010047,-0.162  
19,24.974,rs7248637,-0.170  
19,24.997,rs11881682,-0.180  
19,25.030,rs7252764,-0.168  
19,25.058,rs608773,-0.157  
19,25.084,rs10906990,-0.157  
19,25.234,rs652260,-0.193  
19,25.334,rs525420,-0.216  
19,25.430,rs4804833,-0.202  
19,25.545,rs7252142,-0.148  
19,25.808,rs6603134,-0.123  
19,25.825,rs4804252,-0.124  
19,25.834,rs1104768,-0.124  
19,25.925,rs17160149,-0.115  
19,25.956,rs7245429,-0.111  
19,26.031,rs4527136,-0.098  
19,26.072,rs8112525,-0.090  
19,26.087,rs12162233,-0.087  
19,26.160,rs10416763,-0.093  
19,26.187,rs8112582,-0.092  
19,26.343,rs2967625,-0.071  
19,26.371,rs11666971,-0.073  
19,26.417,rs36253,-0.076  
19,26.422,rs36259,-0.077  
19,26.443,rs250508,-0.059  
19,26.447,rs7250584,-0.059  
19,26.589,rs2241590,-0.027  
19,26.714,rs2278236,-0.017  
19,26.788,rs2967614,-0.016  
19,27.053,rs7507526,-0.021  
19,27.145,rs1054623,-0.022  
19,27.278,rs11672367,-0.021

19,27.384,rs7249094,-0.025  
19,27.575,rs7254400,-0.043  
19,27.604,rs1561406,-0.046  
19,27.681,rs4804075,-0.054  
19,27.711,rs2967674,-0.054  
19,28.118,rs1423049,-0.052  
19,28.169,rs2972588,-0.048  
19,28.335,rs10854117,-0.056  
19,28.352,rs881877,-0.050  
19,28.372,rs7260214,-0.067  
19,28.419,rs12984694,-0.051  
19,28.514,rs10417520,-0.062  
19,28.543,rs4804394,-0.084  
19,28.631,rs11670174,-0.085  
19,28.714,rs8110010,-0.061  
19,28.725,rs1036224,-0.057  
19,28.769,rs2033483,-0.034  
19,28.787,rs8112516,-0.031  
19,28.845,rs7254803,-0.025  
19,29.006,rs10418968,-0.024  
19,29.016,rs12975784,-0.024  
19,29.100,rs17265036,-0.023  
19,29.360,rs10854157,-0.020  
19,29.721,rs10500208,-0.023  
19,29.969,rs2081066,-0.029  
19,30.104,rs9304984,-0.029  
19,30.110,rs8113425,-0.029  
19,30.197,rs6511284,-0.031  
19,30.206,rs8100015,-0.030  
19,30.247,rs10406152,-0.027  
19,30.299,rs2287807,-0.022  
19,30.328,rs2287802,-0.018  
19,30.343,rs889125,-0.016  
19,30.351,rs3786701,-0.009  
19,30.360,rs1644733,-0.015  
19,30.372,rs2431820,-0.014  
19,30.376,rs10401453,-0.014  
19,30.414,rs11883054,-0.016  
19,30.458,rs897803,-0.018  
19,30.494,rs1979262,-0.020  
19,30.503,rs15723,-0.020  
19,30.628,rs2228611,-0.006  
19,30.756,rs10409243,-0.002  
19,30.824,rs8111930,-0.002  
19,30.877,rs5498,-0.004  
19,30.879,rs3093032,-0.003  
19,30.916,rs2291473,-0.003  
19,30.973,rs2278442,-0.002  
19,30.982,rs7258015,-0.002  
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19,31.209,rs7256672,-0.001  
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19,31.799,rs4804149,0.007



19,31.799,rs379309,0.007  
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19,31.918,rs322141,0.001  
19,31.924,rs7417,0.000  
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19,32.212,rs13345223,-0.000  
19,32.221,rs7255420,-0.000  
19,32.269,rs893546,-0.000  
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19,32.354,rs17706051,-0.000  
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19,32.517,rs8102143,0.000  
19,32.762,rs722571,0.000  
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19,33.551,rs8109821,-0.000  
19,33.554,rs8113706,-0.000  
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19,33.660,rs3816027,-0.000  
19,33.744,rs7251403,0.002  
19,33.758,rs4926249,0.002  
19,33.797,rs12608501,0.003  
19,33.826,rs4499352,0.003  
19,33.872,rs8101955,0.003  
19,33.899,rs7256928,0.004  
19,33.925,rs4926278,0.000  
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19,34.149,rs1363345,0.000  
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19,34.163,rs11879128,-0.001  
19,34.185,rs1862260,0.000  
19,34.283,rs16979195,0.002  
19,34.316,rs10414182,0.003  
19,34.391,rs11668370,0.004  
19,34.529,rs10416242,0.000  
19,34.733,rs346144,0.001  
19,34.858,rs346155,0.002  
19,34.881,rs416162,0.001  
19,34.924,rs2607272,0.000  
19,34.985,rs3745454,0.000  
19,35.079,rs8107465,-0.000  
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19,36.081,rs498284,-0.017  
19,36.096,rs492049,-0.025  
19,36.160,rs888876,-0.016  
19,36.350,rs9917042,-0.032  
19,36.366,rs4517893,-0.035  
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19,36.584,rs11878770,-0.077  
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19,36.728,rs2524363,-0.063  
19,36.809,rs3965461,-0.052  
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19,36.937,rs8100775,-0.089  
19,37.046,rs3752192,-0.060  
19,37.131,rs8108703,-0.051  
19,37.155,rs11085914,-0.050  
19,37.206,rs10421024,-0.052  
19,37.296,rs4569396,-0.056  
19,37.374,rs7250965,-0.057  
19,37.406,rs715159,-0.057  
19,37.669,rs11085928,-0.041  
19,37.708,rs7252267,-0.035  
19,37.717,rs10402035,-0.045  
19,37.799,rs6512003,-0.032  
19,37.864,rs714920,-0.036  
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19,37.953,rs7251788,-0.034  
19,37.974,rs2074265,-0.034  
19,38.002,rs1114312,-0.034  
19,38.043,rs2074616,-0.032  
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19,38.107,rs4808272,-0.017  
19,38.332,rs8102864,-0.044  
19,38.351,rs4809198,-0.043  
19,38.363,rs4310987,-0.051  
19,38.365,rs6512044,-0.050  
19,38.379,rs17722016,-0.041  
19,38.406,rs665586,-0.026  
19,38.432,rs4646522,-0.024  
19,38.433,rs7254518,-0.024  
19,38.480,rs4808358,-0.025  
19,38.627,rs8102407,-0.015  
19,38.796,rs4808416,-0.010  
19,38.801,rs1594688,-0.010  
19,38.935,rs7251800,-0.012  
19,38.955,rs6512081,-0.011  
19,39.070,rs4808019,-0.005  
19,39.158,rs8110325,-0.000  
19,39.159,rs998316,-0.000  
19,39.205,rs16981095,0.005  
19,39.217,rs17708984,0.008  
19,39.330,rs2241400,0.011  
19,39.334,rs1043346,0.011  
19,39.341,rs10406557,0.011  
19,39.408,rs12461400,0.012

19,39.499,rs3855681,0.013  
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19,41.179,rs6512158,0.000  
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19,41.269,rs873513,0.000  
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19,41.340,rs10469470,-0.000  
19,41.385,rs4808629,-0.000  
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19,42.711,rs3746199,-0.002  
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19,44.414,rs17654580,-0.216  
19,44.432,rs91710,-0.202  
19,44.454,rs12973060,-0.188  
19,44.470,rs434815,-0.189  
19,44.584,rs3746188,-0.170  
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19,44.798,rs4254438,-0.117  
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19,45.352,rs3795028,-0.095  
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19,45.513,rs10038,-0.097  
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19,45.564,rs8104653,-0.105  
19,45.699,rs10403594,-0.132  
19,45.715,rs2301661,-0.132  
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19,45.956,rs7257072,-0.192  
19,45.993,rs1050483,-0.195  
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19,46.399,rs7252981,-0.250  
19,46.501,rs2304130,-0.269  
19,46.507,rs7247433,-0.270  
19,46.562,rs8110890,-0.270  
19,46.563,rs247767,-0.270  
19,46.577,rs247789,-0.271  
19,46.594,rs8110431,-0.270  
19,46.600,rs248943,-0.270  
19,46.784,rs12460082,-0.290  
19,46.852,rs2335887,-0.300  
19,47.026,rs11673382,-0.327  
19,47.049,rs11878327,-0.334  
19,47.165,rs2078584,-0.360  
19,47.175,rs10425466,-0.366  
19,47.242,rs6511099,-0.418  
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19,47.463,rs1862466,-0.605  
19,47.513,rs8101643,-0.598  
19,47.608,rs7252706,-0.521  
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19,47.877,rs2099351,-0.258  
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19,48.371,rs811020,-0.220  
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19,48.381,rs7248185,-0.230  
19,48.386,rs10409248,-0.239  
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19,48.390,rs7250467,-0.244  
19,48.392,rs9973221,-0.242  
19,48.393,rs11669016,-0.241  
19,48.394,rs10500233,-0.241  
19,48.395,rs17714483,-0.241  
19,48.411,rs1840812,-0.225  
19,48.416,rs12460063,-0.225  
19,48.420,rs736286,-0.236  
19,48.425,rs10414856,-0.251  
19,48.428,rs4806416,-0.249  
19,48.430,rs7246810,-0.248  
19,48.472,rs16962149,-0.193  
19,48.474,rs7249269,-0.192  
19,48.476,rs4805292,-0.186  
19,48.480,rs4805303,-0.161  
19,48.495,rs10516718,-0.137  
19,48.497,rs6509228,-0.129  
19,48.498,rs2278441,-0.124  
19,48.504,rs10424053,-0.119  
19,48.508,rs13382050,-0.100  
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19,48.519,rs7408479,-0.121  
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19,48.529,rs740880,-0.164  
19,48.533,rs892074,-0.161  
19,48.534,rs10412776,-0.162  
19,48.536,rs12982054,-0.158  
19,48.540,rs2195954,-0.159  
19,48.541,rs12461407,-0.162  
19,48.543,rs2082455,-0.165  
19,48.546,rs892071,-0.199  
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19,48.581,rs4805495,-0.179  
19,48.582,rs4805496,-0.178  
19,48.587,rs2080887,-0.138  
19,48.593,rs11668282,-0.138  
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19,48.607,rs335776,-0.192  
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19,48.655,rs10424191,-0.121  
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20,8.201,rs6047800,0.082  
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20,8.368,rs6036147,0.064  
20,8.372,rs6113720,0.064  
20,8.383,rs2076408,0.067  
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20,8.492,rs2179463,0.103  
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20,9.406,rs6051098,0.131  
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20,9.589,rs16990611,0.131  
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20,11.284,rs6051989,0.077  
20,11.338,rs2670314,0.074  
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20,11.421,rs3746638,0.093  
20,11.435,rs6139180,0.098  
20,11.462,rs735710,0.086  
20,11.505,rs580502,0.075  
20,11.560,rs2295343,0.065  
20,11.593,rs683808,0.066  
20,11.673,rs2295348,0.073  
20,11.680,rs4813643,0.073  
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20,12.155,rs2143234,0.094  
20,12.210,rs6052257,0.090  
20,12.258,rs6139278,0.085  
20,12.296,rs945763,0.085  
20,12.326,rs2027236,0.083  
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20,12.428,rs1741283,0.070  
20,12.434,rs1741285,0.075  
20,12.463,rs945772,0.073  
20,12.561,rs6084657,0.063  
20,12.574,rs2027237,0.063  
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20,12.606,rs6116265,0.061  
20,12.745,rs6107436,0.043  
20,12.874,rs4110508,0.028  
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20,70.862,rs3933239,-0.164  
20,71.025,rs2297199,-0.166  
20,71.173,rs1535044,-0.169  
20,71.236,rs6074037,-0.170  
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20,71.293,rs2425761,-0.178  
20,71.349,rs2868767,-0.189  
20,71.423,rs2050113,-0.205  
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20,71.620,rs2425867,-0.185  
20,71.825,rs1011595,-0.173  
20,71.919,rs7266119,-0.176  
20,71.939,rs636493,-0.177  
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20,71.974,rs6065998,-0.178  
20,72.087,rs6063003,-0.220  
20,72.147,rs2064342,-0.207  
20,72.180,rs10854172,-0.216  
20,72.242,rs2425882,-0.230  
20,72.316,rs13038390,-0.227  
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20,72.624,rs3092651,-0.183  
20,72.694,rs3091621,-0.183  
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20,73.148,rs6124883,-0.103  
20,73.205,rs6018168,-0.076  
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20,73.443,rs6018223,-0.052  
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20,73.573,rs6063073,-0.026  
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20,108.119,rs6061706,-0.223  
20,108.141,rs1122269,-0.221  
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20,108.226,rs2026162,-0.207  
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20,108.301,rs6089489,-0.267  
20,108.334,rs6061336,-0.288  
20,108.358,rs6121796,-0.296  
20,108.417,rs1888233,-0.288  
20,108.424,rs6061348,-0.287  
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21,7.419,rs2013669,-0.149  
21,7.431,rs4816274,-0.149  
21,7.543,rs2822589,-0.162  
21,7.641,rs2822654,-0.133  
21,7.758,rs2822670,-0.143  
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21,7.808,rs2822695,-0.144  
21,7.824,rs1735484,-0.145  
21,7.880,rs2822737,-0.180  
21,7.888,rs2822753,-0.179  
21,7.953,rs1882918,-0.164  
21,7.967,rs989938,-0.161  
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21,7.989,rs7281036,-0.156  
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21,8.158,rs2125755,-0.143  
21,8.169,rs2822835,-0.143  
21,8.261,rs1292739,-0.156  
21,8.285,rs8132820,-0.179  
21,8.290,rs2822904,-0.168  
21,8.308,rs2403806,-0.130  
21,8.318,rs2822919,-0.182  
21,8.405,rs1569338,-0.200  
21,8.449,rs926130,-0.211  
21,8.477,rs2822964,-0.264  
21,8.485,rs2253406,-0.264  
21,8.506,rs13049690,-0.254  
21,8.513,rs4816416,-0.251  
21,8.547,rs2256417,-0.252  
21,8.556,rs2229741,-0.256  
21,8.987,rs2823025,-0.312  
21,9.032,rs2142219,-0.314  
21,9.045,rs2012931,-0.348  
21,9.136,rs2823036,-0.315  
21,9.162,rs975336,-0.310  
21,9.305,rs1556286,-0.259  
21,9.391,rs2823068,-0.263  
21,9.981,rs2823141,-0.265  
21,10.027,rs2823153,-0.260  
21,10.250,rs11700906,-0.237  
21,10.296,rs2823188,-0.232  
21,10.502,rs2823233,-0.232  
21,10.544,rs2823238,-0.250  
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21,11.892,rs1689059,-0.132  
21,11.933,rs238993,-0.141  
21,12.006,rs239066,-0.155  
21,12.013,rs2823744,-0.173  
21,12.014,rs1449516,-0.176  
21,12.036,rs7278719,-0.161  
21,12.050,rs239070,-0.147  
21,12.101,rs240495,-0.139  
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21,12.129,rs440294,-0.167  
21,12.150,rs1449522,-0.182  
21,12.243,rs2823809,-0.230  
21,12.254,rs2823815,-0.229  
21,12.257,rs2039241,-0.229  
21,12.463,rs7279730,-0.262  
21,12.535,rs2032287,-0.298  
21,12.558,rs9305777,-0.314  
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21,12.812,rs2824065,-0.378  
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21,13.263,rs1014604,-0.329  
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21,13.702,rs2824226,-0.290  
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21,16.230,rs7282252,-0.253  
21,16.355,rs174742,-0.265  
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21,17.434,rs2212784,-0.590  
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21,17.510,rs2825131,-0.593  
21,17.545,rs2825180,-0.596  
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21,17.728,rs460820,-0.588  
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21,17.836,rs376691,-0.580  
21,17.930,rs421439,-0.586  
21,17.960,rs2825298,-0.628  
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21,18.116,rs2226409,-0.601  
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21,19.121,rs1489734,-0.405  
21,19.177,rs654477,-0.405  
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21,30.303,rs2830811,-0.302  
21,30.314,rs237047,-0.350  
21,30.330,rs2830842,-0.366  
21,30.358,rs2830856,-0.379  
21,30.371,rs9977773,-0.379  
21,30.406,rs239656,-0.364  
21,30.425,rs239628,-0.358  
21,30.431,rs242326,-0.358  
21,30.432,rs2830956,-0.358  
21,30.439,rs242299,-0.354  
21,30.469,rs1981389,-0.319  
21,30.494,rs4817181,-0.288  
21,30.513,rs2831023,-0.283  
21,30.517,rs9975163,-0.283  
21,30.519,rs242341,-0.283  
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21,30.669,rs181706,-0.277  
21,30.789,rs2831350,-0.248  
21,30.818,rs974607,-0.264  
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21,30.829,rs2831475,-0.294  
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21,31.250,rs2831927,-0.251  
21,31.279,rs981931,-0.250  
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21,31.879,rs733610,-0.272  
21,31.927,rs1153285,-0.267  
21,32.177,rs2832329,-0.230  
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21,32.509,rs2142160,-0.168  
21,32.568,rs16985084,-0.147  
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21,32.571,rs9983495,-0.175  
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21,33.040,rs2832631,-0.275  
21,33.313,rs2832790,-0.334  
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21,34.066,rs2833130,-0.341  
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21,41.373,rs2834332,-0.120  
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21,41.939,rs8134775,-0.127  
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21,42.021,rs1010668,-0.113  
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21,42.378,rs2249650,-0.130  
21,42.412,rs2284612,-0.152  
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21,42.434,rs2251826,-0.116  
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21,43.386,rs1627997,-0.150  
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22,77.783,rs916362,0.215  
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