Supplementary Table 1 Summary information of the single nucleotide polymorphisms used as instrumental variables for sarcopenia-related traits

No.	SNP	EA	OA	EAF	Beta	SE	*P*	Sample size	R^2	F-statistic	Excluded, proxy or outlier in ALM	Excluded, proxy or outlier in right low grip strength	Excluded, proxy or outlier in left low grip strength
1	rs301799	T	C	0.5694	-0.025	0.0035	1.36E-12	130634	0.00031	400.49	Outlier	N/A	N/A
2	rs1002656	T	C	0.7033	-0.0266	0.0038	3.74E-12	130634	0.0003	385.87	N/A	N/A	N/A
3	rs1466887	T	C	0.5511	-0.0199	0.0036	4.12E-08	130634	0.0002	256.01	N/A	N/A	N/A
4	rs11579246	A	G	0.9067	0.0381	0.0061	5.71E-10	130634	0.00025	320.92	N/A	N/A	N/A
5	rs1890946	T	C	0.4671	-0.0235	0.0035	2.68E-11	130634	0.00027	359.25	N/A	N/A	N/A

6	rs10789214	T	C	0.5661	0.0193	0.0035	4.44E-08	1306354	0.00018	239.09	N/A	N/A	N/A
7	rs2568958	A	G	0.6156	0.0373	0.0036	8.47E-25	1306354	0.00066	860.75	N/A	N/A	N/A
8	rs10890020	A	G	0.5156	-0.0277	0.0035	4.03E-15	1306354	0.00038	500.88	N/A	N/A	N/A
9	rs113188507	A	G	0.2838	0.0221	0.0039	1.87E-08	1306354	0.0002	259.42	N/A	N/A	N/A
10	rs10913112	T	C	0.3767	-0.0264	0.0036	3.4E-13	1306354	0.00033	427.69	N/A	N/A	N/A
11	rs72710803	A	C	0.9121	-0.041	0.0062	5.29E-11	1306354	0.00027	352.21	N/A	N/A	N/A
12	rs169235	A	G	0.753	-0.0229	0.0041	2.98E-08	1306354	0.0002	254.88	N/A	N/A	N/A
13	rs17641524	T	C	0.2091	-0.032	0.0043	1.52E-13	1306354	0.00034	442.60	N/A	rs2224873	rs2224873
14	rs12052908	A	T	0.5325	-0.022	0.0035	4.44E-10	1306354	0.00024	314.88	N/A	N/A	N/A

15	rs1568452	T	C	0.3851	0.0248	0.0036	8.12E-12	1306354	0.00029	380.63	Outlier	N/A	N/A
16	rs7585722	T	C	0.8458	-0.0269	0.0048	2.68E-08	1306354	0.00019	246.62	N/A	N/A	N/A
17	rs1226412	T	C	0.7917	0.0256	0.0043	3.46E-09	1306354	0.00022	282.43	N/A	N/A	N/A
18	rs62188629	A	G	0.3136	0.0236	0.0038	7.13E-10	1306354	0.00024	313.31	Outlier	N/A	N/A
19	rs4346585	T	C	0.696	-0.0236	0.0038	7.13E-10	1306354	0.00024	307.96	N/A	N/A	N/A
20	rs13084037	A	G	0.774	-0.0245	0.0042	7.08E-09	1306354	0.00021	274.39	Outlier	N/A	N/A
21	rs7624336	T	G	0.2087	0.0238	0.0043	3.96E-08	1306354	0.00019	244.45	N/A	N/A	N/A
22	rs141954845	A	G	0.388	0.0229	0.0037	8.15E-10	1306354	0.00025	325.43	N/A	N/A	Outlier
23	rs6783233	T	C	0.2833	0.0218	0.0039	2.9E-08	1306354	0.00019	252.16	N/A	N/A	N/A

24	rs1095626	T	C	0.5799	-0.0264	0.0035	7.13E-14	1306354	0.00034	443.76	Outlier	Outlier	Outlier
25	rs7685686	A	G	0.5753	0.0202	0.0036	2.57E-08	1306354	0.0002	260.53	N/A	N/A	N/A
26	rs34937911	T	C	0.8838	0.0304	0.0055	4.13E-08	1306354	0.00019	248.02	Outlier	N/A	N/A
27	rs45510091	A	G	0.9472	0.0448	0.008	1.83E-08	1306354	0.0002	262.31	N/A	N/A	N/A
28	rs35553410	T	C	0.7462	-0.0244	0.004	1.42E-09	1306354	0.00023	294.66	N/A	N/A	N/A
29	rs7659414	A	C	0.5782	-0.0201	0.0035	1.2E-08	1306354	0.0002	257.49	Outlier	N/A	N/A
30	rs60157091	T	C	0.515	0.02	0.0035	1.42E-08	1306354	0.0002	261.09	N/A	N/A	N/A
31	rs3099439	T	C	0.5288	-0.0276	0.0035	5.05E-15	1306354	0.00038	496.10	N/A	N/A	N/A
32	rs10061069	C	G	0.2212	-0.0275	0.0042	8.15E-11	1306354	0.00026	340.47	N/A	N/A	Outlier

33	rs30266	A	G	0.3296	0.0308	0.0037	1.45E-16	1306354	0.00042	547.89	N/A	Outlier	Outlier
34	rs11135349	A	C	0.4713	-0.0295	0.0035	6.04E-17	1306354	0.00043	566.80	N/A	N/A	Outlier
35	rs200949	A	G	0.8744	0.048	0.0053	2.53E-19	1306354	0.00051	661.44	N/A	N/A	N/A
36	rs9363467	T	C	0.6035	0.0237	0.0036	6.44E-11	1306354	0.00027	351.26	N/A	N/A	N/A
37	rs7758630	A	T	0.4051	-0.0225	0.0036	5.56E-10	1306354	0.00024	318.84	N/A	N/A	N/A
38	rs1933802	C	G	0.4536	-0.0223	0.0035	2.57E-10	1306354	0.00025	322.10	Outlier	Outlier	Outlier
39	rs2876520	C	G	0.5271	-0.023	0.0036	2.29E-10	1306354	0.00026	344.61	N/A	N/A	N/A
40	rs725616	T	C	0.3644	0.0204	0.0036	1.87E-08	1306354	0.00019	251.88	N/A	N/A	N/A
41	rs2029865	A	T	0.4534	-0.0201	0.0035	1.2E-08	1306354	0.0002	261.65	N/A	N/A	N/A

42	rs3823624	T	C	0.8067	0.0272	0.0045	1.99E-09	1306354	0.00023	301.49	N/A	N/A	N/A
43	rs2043539	A	G	0.4177	0.0273	0.0035	9.89E-15	1306354	0.00036	473.79	N/A	N/A	N/A
44	rs2247523	C	G	0.5319	-0.0207	0.0035	4.38E-09	1306354	0.00021	278.80	N/A	N/A	N/A
45	rs16887442	T	C	0.4347	0.0203	0.0035	8.62E-09	1306354	0.0002	264.63	N/A	N/A	N/A
46	rs58104186	A	G	0.4689	0.0237	0.0035	1.82E-11	1306354	0.00028	365.57	N/A	N/A	N/A
47	rs7807677	T	C	0.5505	0.0237	0.0035	1.82E-11	1306354	0.00028	363.24	N/A	N/A	N/A
48	rs7837935	T	G	0.1522	-0.0292	0.0049	3.34E-09	1306354	0.00022	287.51	N/A	N/A	N/A
49	rs67436663	C	G	0.2402	-0.0259	0.0042	9.37E-10	1306354	0.00024	319.94	N/A	N/A	N/A
50	rs1354115	A	C	0.6243	0.021	0.0036	7.08E-09	1306354	0.00021	270.30	N/A	N/A	N/A

51	rs1982277	T	C	0.7594	0.0279	0.0041	1.45E-11	1306354	0.00028	371.70	N/A	N/A	N/A
52	rs263645	A	T	0.5438	0.0221	0.0035	3.7E-10	1306354	0.00024	316.65	N/A	N/A	N/A
53	rs3793577	A	G	0.4665	-0.0229	0.0035	8.41E-11	1306354	0.00026	341.08	N/A	N/A	N/A
54	rs59283172	A	G	0.1069	-0.0329	0.0057	1.02E-08	1306354	0.00021	270.05	N/A	N/A	N/A
55	rs34653192	C	G	0.3196	-0.0229	0.0038	2.23E-09	1306354	0.00023	298.01	N/A	N/A	N/A
56	rs7030813	T	C	0.3736	0.0253	0.0036	3.07E-12	1306354	0.0003	391.49	N/A	N/A	N/A
57	rs10817969	T	G	0.7173	0.0261	0.0039	3.11E-11	1306354	0.00028	361.01	N/A	N/A	N/A
58	rs913930	A	G	0.6433	-0.0208	0.0037	2.42E-08	1306354	0.0002	259.43	N/A	N/A	N/A
59	rs2670139	T	C	0.7609	-0.0266	0.0041	1.21E-10	1306354	0.00026	336.41	N/A	N/A	N/A

60	rs997934	T	C	0.3795	0.0198	0.0036	4.81E-08	1306354	0.00018	241.24	Outlier	N/A	N/A
61	rs1021363	A	G	0.3547	0.0303	0.0037	4.41E-16	1306354	0.00042	549.26	N/A	N/A	N/A
62	rs1448938	A	G	0.4171	0.0214	0.0035	1.3E-09	1306354	0.00022	290.97	N/A	N/A	N/A
63	rs2509805	T	C	0.3209	0.022	0.0038	9.17E-09	1306354	0.00021	275.63	Outlier	N/A	N/A
64	rs198457	T	C	0.1925	-0.0292	0.0046	2.99E-10	1306354	0.00027	346.37	N/A	N/A	N/A
65	rs58621819	A	T	0.7903	-0.0245	0.0043	1.57E-08	1306354	0.0002	259.96	N/A	N/A	N/A
66	rs7117514	A	G	0.5417	-0.0204	0.0035	7.29E-09	1306354	0.00021	269.99	N/A	N/A	N/A
67	rs7932640	T	C	0.4417	0.0281	0.0035	1.62E-15	1306354	0.00039	508.94	N/A	N/A	N/A
68	rs61902811	A	G	0.3682	-0.0257	0.0036	1.4E-12	1306354	0.00031	401.56	N/A	N/A	N/A

69	rs2187490	T	G	0.9106	-0.0338	0.0061	3.82E-08	1306354	0.00019	243.04	N/A	N/A	N/A
70	rs57344483	A	G	0.9259	-0.038	0.0068	1.82E-08	1306354	0.0002	258.90	N/A	N/A	N/A
71	rs78337797	T	G	0.8781	0.0306	0.0055	3.37E-08	1306354	0.0002	261.92	Outlier	N/A	N/A
72	rs56314503	T	G	0.7487	-0.0254	0.0047	2.95E-10	1306354	0.00024	317.22	N/A	N/A	N/A
73	rs10774600	T	C	0.1656	-0.0267	0.0048	3.39E-08	1306354	0.0002	257.41	Outlier	N/A	N/A
74	rs3213572	A	G	0.4745	0.0217	0.0035	7.61E-10	1306354	0.00023	306.85	Outlier	N/A	N/A
75	rs1409379	T	C	0.7641	0.0249	0.0041	1.67E-09	1306354	0.00022	292.05	N/A	N/A	N/A
76	rs1343605	A	C	0.384	0.0313	0.0036	6.23E-18	1306354	0.00046	605.75	N/A	N/A	N/A
77	rs9592461	A	G	0.4874	0.0216	0.0035	9.1E-10	1306354	0.00023	304.62	N/A	N/A	N/A

78	rs9545360	A	C	0.1807	-0.0271	0.0046	5.02E-09	1306354	0.00022	284.13	N/A	N/A	N/A
79	rs4772087	T	C	0.3732	0.0227	0.0036	3.91E-10	1306354	0.00024	315.00	N/A	N/A	N/A
80	rs61990288	A	G	0.5083	-0.0265	0.0035	1.68E-13	1306354	0.00034	441.57	N/A	N/A	N/A
81	rs1956373	T	G	0.7436	-0.0226	0.0048	2.06E-08	1306354	0.00019	254.48	N/A	N/A	N/A
82	rs1152578	T	C	0.4357	-0.0218	0.0035	6.36E-10	1306354	0.00023	305.35	N/A	N/A	N/A
83	rs1045430	T	G	0.4792	-0.0253	0.0035	7.31E-13	1306354	0.00032	417.50	Outlier	N/A	Outlier
84	rs10149470	A	G	0.4869	-0.0267	0.0035	3.72E-14	1306354	0.00036	465.49	Outlier	N/A	N/A
85	rs8037355	T	C	0.5556	-0.0233	0.0035	3.94E-11	1306354	0.00027	350.31	N/A	N/A	N/A
86	rs34488670	T	C	0.7887	-0.0252	0.0043	6.03E-09	1306354	0.00021	276.56	N/A	N/A	N/A

87	rs7193263	A	G	0.6679	-0.0239	0.0038	4.33E-10	1306354	0.00025	331.11	N/A	N/A	N/A
88	rs7198928	T	C	0.6159	0.0239	0.0036	4.45E-11	1306354	0.00027	353.15	Outlier	N/A	N/A
89	rs7200826	T	C	0.2551	0.028	0.004	3.74E-12	1306354	0.0003	389.35	N/A	N/A	N/A
90	rs56887639	A	G	0.7264	-0.0278	0.0039	1.51E-12	1306354	0.00031	401.43	N/A	N/A	N/A
91	rs12923444	A	C	0.5625	-0.0214	0.0035	1.3E-09	1306354	0.00023	294.52	N/A	N/A	N/A
92	rs75581564	A	G	0.1165	0.0301	0.0054	3.17E-08	1306354	0.00019	243.69	N/A	Outlier	Outlier
93	rs12967855	A	G	0.3295	0.0265	0.0037	1.18E-12	1306354	0.00031	405.48	Outlier	N/A	Outlier
94	rs7227069	A	G	0.4326	0.0238	0.0035	1.5E-11	1306354	0.00028	363.36	N/A	N/A	N/A
95	rs62091461	T	C	0.2274	-0.0254	0.0042	1.95E-09	1306354	0.00023	296.21	N/A	N/A	N/A

96	rs12966052	C	G	0.1805	-0.0314	0.0046	1.25E-11	130635	0.00029	381.16	N/A	Outlier	Outlier
97	rs12967143	C	G	0.6984	-0.0312	0.0038	3.7E-16	130635	0.00041	535.94	N/A	N/A	Outlier
98	rs7241572	A	G	0.201	0.028	0.0044	2.7E-10	130635	0.00025	329.05	N/A	N/A	N/A
99	rs33431	T	C	0.6144	0.0198	0.0036	4.81E-08	130635	0.00019	242.71	N/A	N/A	N/A
100	rs143186028	T	G	0.1778	0.0277	0.0046	2.29E-09	130635	0.00022	293.13	Outlier	N/A	N/A
101	rs12624433	A	G	0.2584	0.0233	0.004	7.44E-09	130635	0.00021	271.87	N/A	N/A	N/A
102	rs5995992	T	C	0.7155	-0.0266	0.0039	1.3E-11	130635	0.00029	376.42	N/A	N/A	N/A

ALM: Appendicular lean mass; EA: Effect allele; EAF: Effect allele frequency; N/A: Not applicable; OA: Other allele; SE: Standard error; SNP: Single nucleotide polymorphism.

Supplementary Table 2 Summary information of the single nucleotide polymorphisms used in reverse Mendelian

randomization analyses

No.	Trait	SNP	EA	OA	EAF	Beta	SE	*P*	Sample size	R^2	F-statistic	Excluded, proxy or outlier
1	ALM	rs2294487	A	G	0.4105	0.02	0.002	5.51E-14	450,243	1.94E-04	87.18	Excluded
2	ALM	rs377599	T	C	0.3830	0.02	0.002	3.50E-29	450,243	1.89E-04	85.13	N/A
3	ALM	rs2232460	A	G	0.3343	0.01	0.002	2.79E-13	450,243	4.45E-05	20.04	N/A
4	ALM	rs11122154	A	T	0.1665	0.02	0.003	3.10E-15	450,243	1.11E-04	49.99	N/A
5	ALM	rs301804	C	G	0.6867	0.02	0.002	4.05E-17	450,243	1.72E-04	77.51	Outlier
6	ALM	rs3903151	A	G	0.5794	-0.02	0.002	1.34E-16	450,243	1.95E-04	87.79	N/A
7	ALM	rs11121615	T	C	0.6894	-0.02	0.002	1.83E-22	450,243	1.71E-04	77.14	N/A
8	ALM	rs7538833	T	C	0.3761	0.01	0.002	4.64E-10	450,243	4.69E-05	21.13	N/A
9	ALM	rs2284747	T	C	0.5213	0.02	0.002	2.34E-16	450,243	2.00E-04	89.90	N/A
10	ALM	rs1472565	T	C	0.5333	0.01	0.002	8.56E-13	450,243	4.98E-05	22.41	N/A
11	ALM	rs212526	T	C	0.3993	-0.02	0.002	3.84E-29	450,243	1.92E-04	86.41	N/A
12	ALM	rs7543136	T	C	0.7209	-0.02	0.002	9.96E-24	450,243	1.61E-04	72.48	N/A
13	ALM	rs6682646	A	G	0.1721	-0.02	0.002	4.16E-12	450,243	1.14E-04	51.33	N/A
14	ALM	rs4274112	A	G	0.6267	0.02	0.002	2.47E-28	450,243	1.87E-04	84.28	N/A

15	ALM	rs6687475	C	G	0.7436	-0.01	0.002	5.61E-12	450,243	3.81E-05	17.17	N/A
16	ALM	rs591833	A	G	0.1334	0.03	0.003	3.55E-21	450,243	2.08E-04	93.71	N/A
17	ALM	rs182524742	T	C	0.0110	-0.06	0.009	2.92E-10	450,243	7.83E-05	35.27	N/A
18	ALM	rs12116935	A	G	0.6140	0.02	0.002	2.46E-23	450,243	1.90E-04	85.38	N/A
19	ALM	rs4360494	C	G	0.5541	-0.02	0.002	7.88E-26	450,243	1.98E-04	89.01	N/A
20	ALM	rs61781391	A	G	0.2172	0.02	0.002	1.16E-11	450,243	1.36E-04	61.25	N/A
21	ALM	rs3737815	A	C	0.1684	-0.02	0.003	1.70E-09	450,243	1.12E-04	50.45	N/A
22	ALM	rs2885697	T	G	0.6650	-0.03	0.002	9.21E-60	450,243	4.01E-04	180.62	N/A
23	ALM	rs1084086	T	G	0.2967	0.01	0.002	9.72E-13	450,243	4.17E-05	18.79	N/A
24	ALM	rs12074850	A	G	0.9102	-0.04	0.003	2.72E-33	450,243	2.62E-04	117.79	N/A
25	ALM	rs142478128	T	C	0.9713	-0.04	0.006	1.67E-10	450,243	8.92E-05	40.17	N/A
26	ALM	rs80206427	T	C	0.9650	-0.04	0.005	1.87E-19	450,243	1.08E-04	48.67	N/A
27	ALM	rs670318	T	C	0.0485	-0.04	0.004	2.52E-21	450,243	1.48E-04	66.50	N/A
28	ALM	rs2025609	C	G	0.1489	-0.02	0.003	2.00E-12	450,243	1.01E-04	45.65	N/A
29	ALM	rs34517439	A	C	0.1221	0.04	0.003	5.80E-48	450,243	3.43E-04	154.49	N/A
30	ALM	rs12038026	T	C	0.7650	-0.01	0.002	2.26E-09	450,243	3.60E-05	16.19	N/A

31	ALM	rs17400787	A	G	0.1777	-0.02	0.003	5.49E-11	450,243	1.17E-04	52.64	N/A
32	ALM	rs11590254	A	T	0.6886	-0.02	0.002	4.34E-20	450,243	1.72E-04	77.25	N/A
33	ALM	rs12733767	T	C	0.1024	-0.02	0.003	9.38E-14	450,243	7.35E-05	33.11	N/A
34	ALM	rs12740374	T	G	0.2214	0.02	0.002	1.83E-10	450,243	1.38E-04	62.10	N/A
35	ALM	rs3768495	T	C	0.7173	-0.02	0.002	1.07E-17	450,243	1.62E-04	73.05	N/A
36	ALM	rs12724682	C	G	0.1289	0.02	0.003	4.04E-13	450,243	8.98E-05	40.45	N/A
37	ALM	rs60804050	A	G	0.2559	-0.02	0.002	5.01E-24	450,243	1.52E-04	68.60	N/A
38	ALM	rs57445715	T	C	0.7328	0.01	0.002	3.48E-12	450,243	3.92E-05	17.63	N/A
39	ALM	rs320826	C	G	0.4954	0.02	0.002	5.67E-12	450,243	2.00E-04	90.06	Excluded
40	ALM	rs9659073	A	G	0.4754	-0.02	0.002	5.05E-26	450,243	2.00E-04	89.85	N/A
41	ALM	rs115161931	T	C	0.0402	-0.04	0.005	4.62E-15	450,243	1.23E-04	55.60	N/A
42	ALM	rs905938	T	C	0.7351	-0.04	0.002	8.43E-77	450,243	6.23E-04	280.73	N/A
43	ALM	rs61812150	A	G	0.0278	0.05	0.006	9.30E-18	450,243	1.35E-04	60.85	N/A
44	ALM	rs11264447	T	G	0.6552	-0.01	0.002	1.29E-12	450,243	4.52E-05	20.34	N/A
45	ALM	rs822430	A	G	0.5221	-0.01	0.002	4.15E-12	450,243	4.99E-05	22.47	N/A
46	ALM	rs6687139	A	G	0.9001	-0.02	0.003	2.11E-13	450,243	7.19E-05	32.39	N/A
47	ALM	rs1052256	A	G	0.8118	-0.02	0.002	3.15E-20	450,243	1.22E-04	55.04	N/A

48	ALM	rs78275727	A	G	0.7716	0.02	0.002	2.96E-13	450,243	1.41E-04	63.49	N/A
49	ALM	rs4233168	A	T	0.0812	0.02	0.003	1.09E-11	450,243	5.97E-05	26.87	N/A
50	ALM	rs11583447	T	G	0.5729	-0.02	0.002	4.39E-26	450,243	1.96E-04	88.15	Excluded
51	ALM	rs10913200	A	G	0.0285	-0.05	0.006	2.06E-18	450,243	1.38E-04	62.34	N/A
52	ALM	rs576101	A	T	0.3249	0.02	0.002	9.66E-17	450,243	1.75E-04	79.02	N/A
53	ALM	rs3795503	T	C	0.3145	0.02	0.002	2.49E-18	450,243	1.72E-04	77.67	N/A
54	ALM	rs12071514	A	C	0.4106	0.02	0.002	1.03E-24	450,243	1.94E-04	87.19	Excluded
55	ALM	rs234640	T	C	0.5142	-0.01	0.002	3.87E-12	450,243	5.00E-05	22.50	N/A
56	ALM	rs3850625	A	G	0.1182	-0.03	0.003	3.42E-18	450,243	1.88E-04	84.49	N/A
57	ALM	rs72744832	T	C	0.9165	0.03	0.003	1.92E-18	450,243	1.38E-04	62.03	N/A
58	ALM	rs955865	A	G	0.4202	0.01	0.002	4.09E-15	450,243	4.87E-05	21.94	N/A
59	ALM	rs7536483	A	T	0.5726	0.02	0.002	7.49E-33	450,243	1.96E-04	88.17	N/A
60	ALM	rs7532674	T	G	0.2610	0.02	0.002	2.70E-12	450,243	1.54E-04	69.48	N/A
61	ALM	rs6540718	A	C	0.0142	0.05	0.008	1.16E-12	450,243	7.00E-05	31.52	N/A
62	ALM	rs1415181	T	C	0.5926	0.01	0.002	6.85E-14	450,243	4.83E-05	21.74	N/A
63	ALM	rs11811226	A	T	0.5559	-0.02	0.002	1.90E-16	450,243	1.98E-04	88.94	N/A
64	ALM	rs3121580	T	C	0.1728	-0.02	0.002	3.28E-11	450,243	1.14E-04	51.49	N/A
65	ALM	rs6658835	A	G	0.7308	-0.02	0.002	9.13E-20	450,243	1.57E-04	70.87	N/A

66	ALM	rs6604614	C	G	0.7154	-0.02	0.002	5.13E-29	450,243	1.63E-04	73.35	N/A
67	ALM	rs78763889	T	G	0.0417	0.03	0.005	1.12E-12	450,243	7.19E-05	32.39	N/A
68	ALM	rs12724708	A	T	0.6426	-0.02	0.002	1.66E-35	450,243	1.84E-04	82.74	N/A
69	ALM	rs61826465	T	C	0.7472	0.01	0.002	6.50E-11	450,243	3.78E-05	17.01	N/A
70	ALM	rs34780873	T	G	0.7971	0.02	0.002	2.58E-14	450,243	1.29E-04	58.26	N/A
71	ALM	rs2994330	T	G	0.1970	0.02	0.002	6.62E-12	450,243	1.27E-04	56.99	N/A
72	ALM	rs114018835	T	C	0.0359	0.03	0.005	2.68E-09	450,243	6.23E-05	28.05	N/A
73	ALM	rs62106258	T	C	0.9514	0.05	0.004	4.20E-33	450,243	2.31E-04	104.12	N/A
74	ALM	rs7563362	A	G	0.1434	-0.04	0.003	3.27E-39	450,243	3.93E-04	177.05	N/A
75	ALM	rs13402560	C	G	0.1869	-0.02	0.002	1.43E-13	450,243	1.22E-04	54.74	N/A
76	ALM	rs12474969	A	G	0.3006	0.02	0.002	4.03E-16	450,243	1.68E-04	75.74	N/A
77	ALM	rs4668626	A	G	0.5839	-0.01	0.002	2.35E-10	450,243	4.86E-05	21.88	N/A
78	ALM	rs6735681	T	C	0.8908	0.03	0.003	1.68E-19	450,243	1.75E-04	78.85	N/A
79	ALM	rs12713004	A	G	0.2746	-0.04	0.002	2.40E-68	450,243	6.37E-04	287.18	N/A
80	ALM	rs1056074	T	C	0.8225	0.02	0.002	1.24E-11	450,243	1.17E-04	52.59	N/A
81	ALM	rs2118826	A	T	0.4899	-0.02	0.002	1.48E-39	450,243	2.00E-04	90.03	N/A
82	ALM	rs11689727	A	C	0.3317	-0.01	0.002	1.64E-09	450,243	4.43E-05	19.96	N/A

83	ALM	rs72799646	A	G	0.7718	-0.02	0.002	1.19E-22	450,243	1.41E-04	63.45	N/A
84	ALM	rs1260326	T	C	0.3955	-0.03	0.002	6.16E-64	450,243	4.30E-04	193.84	N/A
85	ALM	rs17496249	A	G	0.5546	-0.01	0.002	6.92E-11	450,243	4.94E-05	22.24	N/A
86	ALM	rs5830612	T	G	0.8749	-0.02	0.003	4.19E-11	450,243	8.76E-05	39.43	Excluded
87	ALM	rs10202845	A	G	0.8867	0.03	0.003	5.35E-22	450,243	1.81E-04	81.43	N/A
88	ALM	rs7593987	A	G	0.1914	0.02	0.002	1.03E-19	450,243	1.24E-04	55.75	N/A
89	ALM	rs11893991	A	G	0.4266	0.01	0.002	2.28E-09	450,243	4.89E-05	22.03	N/A
90	ALM	rs687914	T	G	0.2514	-0.01	0.002	7.99E-11	450,243	3.76E-05	16.95	N/A
91	ALM	rs62136933	A	G	0.1842	0.03	0.002	9.01E-32	450,243	2.70E-04	121.82	N/A
92	ALM	rs2436772	A	G	0.2092	0.02	0.002	1.18E-15	450,243	1.32E-04	59.60	N/A
93	ALM	rs1875407	T	C	0.3812	-0.01	0.002	8.41E-13	450,243	4.72E-05	21.24	N/A
94	ALM	rs79073127	C	G	0.1227	-0.02	0.003	2.56E-15	450,243	8.61E-05	38.78	N/A
95	ALM	rs59985551	T	C	0.2261	-0.03	0.002	2.43E-44	450,243	3.15E-04	141.85	N/A
96	ALM	rs1432559	T	G	0.7814	-0.01	0.002	1.56E-09	450,243	3.42E-05	15.38	N/A
97	ALM	rs75022676	A	G	0.2079	-0.02	0.002	2.84E-12	450,243	1.32E-04	59.32	N/A
98	ALM	rs7569084	T	C	0.5853	-0.02	0.002	8.85E-16	450,243	1.94E-04	87.44	N/A
99	ALM	rs76517946	A	C	0.0814	-0.04	0.004	1.69E-26	450,243	2.39E-04	107.76	N/A
100	ALM	rs6711815	C	G	0.1474	0.02	0.003	3.00E-09	450,243	1.01E-04	45.27	N/A

101	ALM	rs11545482	T	C	0.0205	-0.04	0.007	3.57E-11	450,243	6.43E-05	28.93	N/A
102	ALM	rs4852257	T	G	0.4237	0.02	0.002	6.21E-34	450,243	1.95E-04	87.97	Outlier
103	ALM	rs6749644	T	G	0.6871	-0.01	0.002	6.46E-13	450,243	4.30E-05	19.36	N/A
104	ALM	rs13423761	A	C	0.3270	0.01	0.002	5.62E-10	450,243	4.40E-05	19.82	N/A
105	ALM	rs6746854	T	C	0.8497	-0.02	0.003	7.21E-10	450,243	1.02E-04	46.00	N/A
106	ALM	rs14976	T	C	0.3057	0.01	0.002	1.43E-12	450,243	4.24E-05	19.11	N/A
107	ALM	rs867529	C	G	0.2796	0.02	0.002	1.00E-18	450,243	1.61E-04	72.56	N/A
108	ALM	rs6738207	A	G	0.4007	0.01	0.002	4.15E-11	450,243	4.80E-05	21.63	N/A
109	ALM	rs10199020	A	T	0.4940	0.01	0.002	2.87E-14	450,243	5.00E-05	22.51	N/A
110	ALM	rs201570119	T	C	0.7902	-0.02	0.002	5.48E-17	450,243	1.33E-04	59.72	Excluded
111	ALM	rs55812028	T	C	0.2451	0.02	0.002	3.72E-13	450,243	1.48E-04	66.65	N/A
112	ALM	rs141033892	A	G	0.0504	0.03	0.004	2.16E-09	450,243	8.61E-05	38.79	N/A
113	ALM	rs12463948	A	T	0.8117	0.02	0.002	3.17E-13	450,243	1.22E-04	55.06	N/A
114	ALM	rs13392139	A	G	0.9347	0.03	0.004	1.87E-13	450,243	1.10E-04	49.47	N/A
115	ALM	rs4663096	A	T	0.1794	0.01	0.002	1.53E-09	450,243	2.94E-05	13.26	N/A
116	ALM	rs3101041	A	C	0.7304	-0.01	0.002	2.97E-10	450,243	3.94E-05	17.73	Excluded

117	ALM	rs1128249	T	G	0.3919	-0.02	0.002	2.89E-25	450,243	1.91E-04	85.86	N/A
118	ALM	rs2102808	T	G	0.1193	0.02	0.003	1.22E-11	450,243	8.41E-05	37.85	N/A
119	ALM	rs488621	A	G	0.5312	-0.02	0.002	2.86E-24	450,243	1.99E-04	89.72	N/A
120	ALM	rs12151587	T	C	0.5811	0.02	0.002	6.21E-24	450,243	1.95E-04	87.70	N/A
121	ALM	rs2111459	T	C	0.2425	0.01	0.002	1.95E-11	450,243	3.67E-05	16.54	N/A
122	ALM	rs55852614	T	C	0.7526	0.04	0.002	3.29E-73	450,243	5.96E-04	268.42	N/A
123	ALM	rs16862227	T	G	0.2301	-0.02	0.002	4.80E-19	450,243	1.42E-04	63.82	N/A
124	ALM	rs741610	A	G	0.6691	-0.01	0.002	8.09E-14	450,243	4.43E-05	19.94	N/A
125	ALM	rs2444563	T	C	0.7921	0.02	0.002	8.86E-16	450,243	1.32E-04	59.32	N/A
126	ALM	rs112405294	A	G	0.0821	0.03	0.003	8.49E-14	450,243	1.36E-04	61.08	N/A
127	ALM	rs137968292	T	C	0.0110	0.06	0.009	3.16E-10	450,243	7.83E-05	35.27	N/A
128	ALM	rs295139	A	T	0.4129	0.01	0.002	1.31E-13	450,243	4.85E-05	21.83	N/A
129	ALM	rs72931013	A	C	0.9792	-0.04	0.007	5.52E-10	450,243	6.52E-05	29.35	Excluded
130	ALM	rs72938315	C	G	0.8549	-0.02	0.003	6.68E-15	450,243	9.92E-05	44.68	N/A
131	ALM	rs62195405	A	G	0.4259	0.01	0.002	9.14E-15	450,243	4.89E-05	22.02	N/A
132	ALM	rs1320929	A	G	0.4367	0.01	0.002	6.09E-13	450,243	4.92E-05	22.15	N/A

133	ALM	rs1047891	A	C	0.3159	0.02	0.002	5.70E-31	450,243	1.73E-04	77.85	N/A
134	ALM	rs6754292	T	C	0.6446	0.02	0.002	1.65E-21	450,243	1.83E-04	82.53	N/A
135	ALM	rs12622189	A	G	0.7422	0.03	0.002	1.34E-35	450,243	3.44E-04	155.12	N/A
136	ALM	rs76018285	A	G	0.9417	-0.03	0.004	1.84E-13	450,243	9.88E-05	44.50	N/A
137	ALM	rs10194082	T	C	0.5897	0.02	0.002	2.64E-27	450,243	1.94E-04	87.17	N/A
138	ALM	rs145296160	T	C	0.9829	0.06	0.008	4.44E-15	450,243	1.21E-04	54.49	N/A
139	ALM	rs6711710	T	C	0.2188	-0.03	0.002	8.28E-40	450,243	3.08E-04	138.57	N/A
140	ALM	rs2629047	A	T	0.3943	-0.02	0.002	2.08E-18	450,243	1.91E-04	86.04	N/A
141	ALM	rs139441245	A	T	0.0109	-0.06	0.009	1.71E-10	450,243	7.76E-05	34.95	Excluded
142	ALM	rs1522802	A	C	0.2181	0.02	0.002	5.41E-13	450,243	1.36E-04	61.43	N/A
143	ALM	rs17246129	A	G	0.3044	0.03	0.002	1.27E-35	450,243	3.81E-04	171.67	N/A
144	ALM	rs41265094	C	G	0.9853	-0.06	0.007	1.06E-17	450,243	1.04E-04	46.96	N/A
145	ALM	rs4973392	A	G	0.2268	-0.02	0.002	1.63E-20	450,243	1.40E-04	63.17	N/A
146	ALM	rs10202701	T	C	0.5419	0.02	0.002	3.11E-33	450,243	1.99E-04	89.43	N/A
147	ALM	rs73000823	T	C	0.1563	-0.02	0.003	1.74E-15	450,243	1.05E-04	47.50	N/A
148	ALM	rs3116201	A	G	0.0977	-0.03	0.003	2.98E-21	450,243	1.59E-04	71.45	N/A

149	ALM	rs79057767	A	G	0.9677	-0.05	0.005	3.32E-21	450,243	1.56E-04	70.38	N/A
150	ALM	rs6755070	T	G	0.3501	-0.02	0.002	2.04E-23	450,243	1.82E-04	81.97	Excluded
151	ALM	rs2971857	A	G	0.5752	-0.01	0.002	3.70E-10	450,243	4.89E-05	22.00	N/A
152	ALM	rs12476059	T	C	0.8495	0.02	0.003	4.65E-10	450,243	1.02E-04	46.06	Excluded
153	ALM	rs61277584	A	G	0.4733	0.01	0.002	2.64E-13	450,243	4.99E-05	22.45	N/A
154	ALM	rs2310876	A	G	0.6693	0.01	0.002	2.89E-12	450,243	4.43E-05	19.93	N/A
155	ALM	rs6718026	T	C	0.5857	-0.02	0.002	2.46E-19	450,243	1.94E-04	87.42	N/A
156	ALM	rs6763944	T	C	0.7234	0.01	0.002	5.20E-11	450,243	4.00E-05	18.02	N/A
157	ALM	rs2270894	C	G	0.7966	0.03	0.002	1.25E-42	450,243	2.92E-04	131.35	N/A
158	ALM	rs12633841	T	G	0.1778	0.02	0.003	6.40E-13	450,243	1.17E-04	52.66	N/A
159	ALM	rs7610055	A	G	0.1207	-0.04	0.003	3.55E-38	450,243	3.40E-04	152.96	N/A
160	ALM	rs7615332	A	G	0.4221	0.02	0.002	2.48E-26	450,243	1.95E-04	87.88	N/A
161	ALM	rs73040019	T	C	0.8419	-0.02	0.003	1.54E-14	450,243	1.06E-04	47.95	N/A
162	ALM	rs6550846	T	C	0.7895	0.02	0.002	2.07E-15	450,243	1.33E-04	59.87	N/A
163	ALM	rs4858605	T	C	0.1848	0.02	0.002	5.02E-11	450,243	1.21E-04	54.27	N/A
164	ALM	rs4858697	A	G	0.4184	-0.01	0.002	3.06E-14	450,243	4.87E-05	21.91	N/A
165	ALM	rs591668	A	G	0.3960	-0.02	0.002	2.00E-19	450,243	1.91E-04	86.17	N/A
166	ALM	rs77156651	A	G	0.0537	-0.03	0.004	6.83E-16	450,243	9.15E-05	41.19	N/A

167	ALM	rs72858391	A	G	0.0271	0.04	0.006	1.33E-14	450,243	8.44E-05	37.99	N/A
168	ALM	rs9838614	T	G	0.6119	0.02	0.002	1.21E-21	450,243	1.90E-04	85.55	N/A
169	ALM	rs13067055	A	G	0.3506	0.01	0.002	1.51E-11	450,243	4.55E-05	20.50	Excluded
170	ALM	rs34345884	C	G	0.0214	-0.04	0.007	6.13E-10	450,243	6.70E-05	30.17	N/A
171	ALM	rs17606778	A	C	0.1959	0.02	0.002	2.86E-12	450,243	1.26E-04	56.75	N/A
172	ALM	rs140440099	A	G	0.0234	0.06	0.006	1.45E-22	450,243	1.65E-04	74.09	N/A
173	ALM	rs11717749	T	C	0.1147	0.03	0.003	5.30E-24	450,243	1.83E-04	82.31	N/A
174	ALM	rs114718455	A	G	0.9651	-0.04	0.005	3.54E-12	450,243	1.08E-04	48.53	Excluded
175	ALM	rs11130474	C	G	0.4618	0.02	0.002	1.56E-19	450,243	1.99E-04	89.54	N/A
176	ALM	rs6762851	T	C	0.6427	0.02	0.002	1.50E-28	450,243	1.84E-04	82.73	N/A
177	ALM	rs550944	A	T	0.6772	-0.01	0.002	3.09E-09	450,243	4.37E-05	19.69	N/A
178	ALM	rs9809116	A	G	0.5919	0.02	0.002	1.31E-16	450,243	1.93E-04	87.02	N/A
179	ALM	rs7633464	A	G	0.4786	0.02	0.002	1.28E-20	450,243	2.00E-04	89.90	N/A
180	ALM	rs13088318	A	G	0.6631	-0.02	0.002	1.15E-17	450,243	1.79E-04	80.48	N/A
181	ALM	rs4073154	A	G	0.2216	-0.03	0.002	1.93E-33	450,243	3.10E-04	139.84	N/A
182	ALM	rs54681963	T	C	0.0936	0.03	0.003	1.05E-18	450,243	1.53E-04	68.77	Excluded

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183	ALM	rs9832919	A	G	0.6426	0.02	0.002	7.90E-20	450,243	1.84E-04	82.74	N/A
184	ALM	rs9883955	T	G	0.3730	0.02	0.002	4.63E-21	450,243	1.87E-04	84.25	N/A
185	ALM	rs2871960	A	C	0.5552	-0.05	0.002	2.17E-135	450,243	1.23E-03	556.63	N/A
186	ALM	rs35408555	A	G	0.7718	0.01	0.002	1.76E-09	450,243	3.52E-05	15.86	N/A
187	ALM	rs74497536	A	G	0.0232	0.04	0.006	1.56E-09	450,243	7.25E-05	32.65	N/A
188	ALM	rs900399	A	G	0.6014	-0.02	0.002	1.35E-17	450,243	1.92E-04	86.36	N/A
189	ALM	rs1048243	A	G	0.6350	-0.01	0.002	2.62E-14	450,243	4.64E-05	20.87	N/A
190	ALM	rs2115959	A	C	0.4543	-0.01	0.002	5.70E-14	450,243	4.96E-05	22.33	N/A
191	ALM	rs9647379	C	G	0.4111	0.02	0.002	2.75E-21	450,243	1.94E-04	87.22	N/A
192	ALM	rs4894532	T	G	0.3648	0.03	0.002	1.53E-45	450,243	4.17E-04	187.87	N/A
193	ALM	rs843342	T	C	0.4809	-0.01	0.002	1.06E-09	450,243	4.99E-05	22.48	N/A
194	ALM	rs11545169	T	G	0.1613	-0.04	0.003	8.19E-43	450,243	4.33E-04	195.00	N/A
195	ALM	rs2194411	A	G	0.1283	0.04	0.003	2.43E-54	450,243	3.58E-04	161.19	N/A
196	ALM	rs61732778	A	G	0.0710	0.02	0.004	3.13E-10	450,243	5.28E-05	23.76	N/A
197	ALM	rs62288215	A	C	0.6078	0.01	0.002	1.66E-09	450,243	4.77E-05	21.47	N/A
198	ALM	rs6837180	A	G	0.4163	-0.01	0.002	2.56E-10	450,243	4.86E-05	21.88	Excluded

199	ALM	rs111391498	A	G	0.9523	0.03	0.004	3.65E-14	450,243	8.18E-05	36.82	N/A
200	ALM	rs7680647	T	C	0.6438	-0.02	0.002	2.26E-20	450,243	1.83E-04	82.62	N/A
201	ALM	rs59950280	A	G	0.3316	-0.03	0.002	7.32E-36	450,243	3.99E-04	179.70	N/A
202	ALM	rs183275998	C	G	0.2842	0.01	0.002	8.20E-11	450,243	4.07E-05	18.32	N/A
203	ALM	rs62288581	A	G	0.4206	-0.01	0.002	2.54E-12	450,243	4.87E-05	21.95	N/A
204	ALM	rs223929	A	C	0.7179	0.02	0.002	1.67E-20	450,243	1.62E-04	72.96	N/A
205	ALM	rs1472852	A	C	0.1582	-0.06	0.003	8.22E-135	450,243	9.59E-04	432.13	N/A
206	ALM	rs60799144	A	T	0.4001	0.01	0.002	1.16E-11	450,243	4.80E-05	21.61	Excluded
207	ALM	rs2324154	A	C	0.5096	0.02	0.002	1.92E-15	450,243	2.00E-04	90.03	N/A
208	ALM	rs74416750	T	C	0.1497	-0.02	0.003	4.65E-15	450,243	1.02E-04	45.85	N/A
209	ALM	rs781669	T	C	0.5236	0.02	0.002	3.14E-18	450,243	2.00E-04	89.87	N/A
210	ALM	rs139921635	T	G	0.0236	0.04	0.006	2.66E-10	450,243	7.37E-05	33.20	N/A
211	ALM	rs58083390	T	C	0.0708	-0.03	0.004	3.35E-18	450,243	1.18E-04	53.32	Excluded
212	ALM	rs11294877	T	C	0.0169	0.07	0.007	1.36E-22	450,243	1.63E-04	73.32	N/A

		8										
213	ALM	rs1443536	A	G	0.6950	-0.02	0.002	1.91E-26	450,243	1.70E-04	76.36	N/A
214	ALM	rs17010957	T	C	0.8515	0.02	0.003	6.34E-20	450,243	1.01E-04	45.55	N/A
215	ALM	rs1841738	A	G	0.4817	0.02	0.002	1.32E-24	450,243	2.00E-04	89.95	N/A
216	ALM	rs62306393	A	C	0.6467	-0.01	0.002	1.17E-11	450,243	4.57E-05	20.58	N/A
217	ALM	rs78896073	A	T	0.0464	-0.03	0.005	2.90E-10	450,243	7.96E-05	35.86	N/A
218	ALM	rs143847362	A	G	0.9745	0.04	0.006	2.65E-12	450,243	7.95E-05	35.81	N/A
219	ALM	rs1493132	T	C	0.6614	-0.01	0.002	3.29E-11	450,243	4.48E-05	20.17	N/A
220	ALM	rs10007409	T	C	0.3101	-0.02	0.002	7.11E-22	450,243	1.71E-04	77.07	N/A
221	ALM	rs6821305	A	C	0.6010	-0.02	0.002	3.15E-26	450,243	1.92E-04	86.39	N/A
222	ALM	rs10518426	T	C	0.5838	-0.02	0.002	3.49E-22	450,243	1.94E-04	87.54	N/A
223	ALM	rs7689420	T	C	0.1688	-0.05	0.003	1.50E-76	450,243	7.02E-04	316.08	N/A
224	ALM	rs116662954	A	G	0.0274	-0.05	0.006	8.75E-19	450,243	1.33E-04	60.00	N/A
225	ALM	rs7679276	A	G	0.0456	0.03	0.005	5.93E-12	450,243	7.83E-05	35.27	N/A
226	ALM	rs7692387	A	G	0.1854	0.02	0.002	3.53E-12	450,243	1.21E-04	54.41	N/A
227	ALM	rs73856768	T	C	0.9195	0.02	0.004	1.55E-12	450,243	5.92E-05	26.66	N/A

228	ALM	rs395980	T	G	0.7365	0.02	0.002	1.02E-17	450,243	1.55E-04	69.91	N/A
229	ALM	rs6552198	A	G	0.6378	-0.02	0.002	7.18E-18	450,243	1.85E-04	83.22	N/A
230	ALM	rs10015974	A	G	0.2407	-0.02	0.002	1.10E-15	450,243	1.46E-04	65.84	N/A
231	ALM	rs2578557	T	C	0.6417	-0.01	0.002	1.99E-12	450,243	4.60E-05	20.70	N/A
232	ALM	rs9716700	A	C	0.1901	-0.02	0.003	1.36E-17	450,243	1.23E-04	55.46	Excluded
233	ALM	rs12656497	T	C	0.4037	0.03	0.002	1.22E-40	450,243	4.33E-04	195.18	N/A
234	ALM	rs7718953	A	C	0.7352	0.02	0.002	4.44E-15	450,243	1.56E-04	70.13	N/A
235	ALM	rs6897259	T	C	0.3779	-0.01	0.002	9.58E-14	450,243	4.70E-05	21.17	N/A
236	ALM	rs7731023	A	G	0.4251	-0.02	0.002	3.48E-18	450,243	1.96E-04	88.04	N/A
237	ALM	rs1818782	A	C	0.3437	-0.02	0.002	3.94E-14	450,243	1.80E-04	81.26	N/A
238	ALM	rs73087475	T	C	0.9077	-0.03	0.003	3.07E-18	450,243	1.51E-04	67.91	N/A
239	ALM	rs62372052	A	G	0.8897	-0.04	0.003	8.25E-40	450,243	3.14E-04	141.43	Excluded
240	ALM	rs62370472	T	C	0.7910	0.03	0.002	1.45E-27	450,243	2.98E-04	134.02	N/A
241	ALM	rs1833888	T	C	0.2322	-0.02	0.002	7.93E-21	450,243	1.43E-04	64.23	N/A
242	ALM	rs35748083	T	C	0.5682	-0.02	0.002	9.77E-25	450,243	1.96E-04	88.39	N/A
243	ALM	rs4865956	A	T	0.6965	-0.03	0.002	3.85E-36	450,243	3.80E-04	171.38	N/A
244	ALM	rs465983	A	G	0.7642	0.02	0.002	4.75E-12	450,243	1.44E-04	64.92	N/A
245	ALM	rs282302	A	G	0.0902	0.03	0.003	6.51E-14	450,243	1.48E-04	66.52	N/A

246	ALM	rs34287	A	G	0.3410	0.02	0.002	1.17E-20	450,243	1.80E-04	80.96	N/A
247	ALM	rs152353	A	G	0.1990	0.02	0.002	4.05E-12	450,243	1.28E-04	57.42	N/A
248	ALM	rs10036789	C	G	0.5391	-0.02	0.002	1.17E-17	450,243	1.99E-04	89.52	N/A
249	ALM	rs609659	A	G	0.5761	-0.01	0.002	7.55E-13	450,243	4.88E-05	21.99	N/A
250	ALM	rs6877994	C	G	0.4842	-0.01	0.002	9.86E-11	450,243	5.00E-05	22.49	N/A
251	ALM	rs115912456	A	G	0.9588	-0.06	0.005	3.69E-34	450,243	2.84E-04	128.09	N/A
252	ALM	rs13178887	T	C	0.6133	0.02	0.002	2.85E-17	450,243	1.90E-04	85.44	N/A
253	ALM	rs2367279	T	G	0.9047	-0.02	0.003	3.82E-09	450,243	6.90E-05	31.06	N/A
254	ALM	rs55838622	A	C	0.7540	-0.02	0.002	1.24E-16	450,243	1.48E-04	66.82	Excluded
255	ALM	rs261223	A	C	0.6298	-0.02	0.002	2.30E-19	450,243	1.87E-04	84.00	N/A
256	ALM	rs331917	A	G	0.4197	0.01	0.002	3.54E-11	450,243	4.87E-05	21.93	N/A
257	ALM	rs861674	A	T	0.5422	-0.01	0.002	1.37E-11	450,243	4.96E-05	22.35	N/A
258	ALM	rs9327336	T	C	0.6565	-0.01	0.002	1.78E-10	450,243	4.51E-05	20.31	N/A
259	ALM	rs7729769	A	G	0.5048	0.01	0.002	4.56E-11	450,243	5.00E-05	22.51	Excluded
260	ALM	rs6860245	C	G	0.2480	0.06	0.002	9.66E-160	450,243	1.34E-03	605.38	N/A
261	ALM	rs7735162	T	C	0.7244	0.02	0.002	2.57E-13	450,243	1.60E-04	71.92	N/A

262	ALM	rs6866701	A	G	0.0760	0.03	0.004	8.01E-18	450,243	1.26E-04	56.92	N/A
263	ALM	rs1291602	T	C	0.1592	-0.03	0.003	3.42E-32	450,243	2.41E-04	108.51	N/A
264	ALM	rs7735891	T	C	0.4629	0.03	0.002	1.14E-42	450,243	4.48E-04	201.58	N/A
265	ALM	rs4976261	C	G	0.2499	-0.03	0.002	8.67E-43	450,243	3.37E-04	151.97	N/A
266	ALM	rs639933	A	C	0.6333	0.01	0.002	8.14E-13	450,243	4.64E-05	20.91	N/A
267	ALM	rs11242236	A	G	0.4533	-0.01	0.002	1.84E-14	450,243	4.96E-05	22.32	N/A
268	ALM	rs12055045	T	C	0.2062	0.02	0.002	7.15E-20	450,243	1.31E-04	58.96	N/A
269	ALM	rs3822742	A	C	0.3706	0.02	0.002	1.03E-16	450,243	1.87E-04	84.03	N/A
270	ALM	rs153662	T	G	0.5886	0.01	0.002	1.23E-12	450,243	4.84E-05	21.81	N/A
271	ALM	rs853170	T	C	0.7398	-0.02	0.002	6.04E-13	450,243	1.54E-04	69.35	N/A
272	ALM	rs10069931	T	C	0.3282	-0.01	0.002	3.28E-13	450,243	4.41E-05	19.86	N/A
273	ALM	rs13170063	A	G	0.5921	-0.02	0.002	4.11E-15	450,243	1.93E-04	87.01	N/A
274	ALM	rs4073717	T	G	0.2016	-0.03	0.002	5.85E-34	450,243	2.90E-04	130.48	N/A
275	ALM	rs33852	A	G	0.6771	-0.02	0.002	1.04E-24	450,243	1.75E-04	78.76	N/A
276	ALM	rs75767302	A	G	0.0441	0.03	0.005	8.52E-13	450,243	7.59E-05	34.17	N/A
277	ALM	rs6874142	T	G	0.8862	-0.02	0.003	1.68E-14	450,243	8.07E-05	36.33	N/A
278	ALM	rs6881592	A	G	0.6347	0.02	0.002	2.81E-21	450,243	1.85E-04	83.53	N/A
279	ALM	rs7733195	A	G	0.3494	-0.02	0.002	4.49E-21	450,243	1.82E-04	81.89	N/A

280	ALM	rs244711	T	C	0.6860	0.03	0.002	1.54E-37	450,243	3.88E-04	174.64	Excluded
281	ALM	rs13177762	T	C	0.1374	0.03	0.003	4.08E-20	450,243	2.13E-04	96.07	N/A
282	ALM	rs62398471	A	G	0.2946	0.02	0.002	1.16E-17	450,243	1.66E-04	74.86	Excluded
283	ALM	rs4959697	T	C	0.7435	-0.01	0.002	4.29E-10	450,243	3.81E-05	17.17	Excluded
284	ALM	rs9379084	A	G	0.1155	-0.03	0.003	1.84E-20	450,243	1.84E-04	82.81	N/A
285	ALM	rs11243202	T	C	0.5140	-0.03	0.002	2.83E-57	450,243	4.50E-04	202.54	N/A
286	ALM	rs6923462	T	C	0.8429	-0.03	0.003	3.41E-24	450,243	2.38E-04	107.34	N/A
287	ALM	rs35947355	A	G	0.2240	-0.02	0.002	5.59E-15	450,243	1.39E-04	62.62	N/A
288	ALM	rs2142644	A	C	0.6720	-0.02	0.002	3.37E-19	450,243	1.76E-04	79.41	N/A
289	ALM	rs41271299	T	C	0.0513	0.06	0.004	3.19E-47	450,243	3.50E-04	157.83	N/A
290	ALM	rs9379832	A	G	0.7447	0.02	0.002	3.77E-24	450,243	1.52E-04	68.49	N/A
291	ALM	rs17767294	A	G	0.9226	0.02	0.004	1.94E-10	450,243	5.71E-05	25.72	N/A
292	ALM	rs3095275	A	G	0.1998	0.02	0.002	8.96E-21	450,243	1.28E-04	57.59	Excluded
293	ALM	rs9266244	A	G	0.7077	-0.04	0.002	1.21E-94	450,243	6.62E-04	298.24	Outlier
294	ALM	rs184318723	C	G	0.0466	0.06	0.007	3.18E-21	450,243	3.20E-04	144.07	Excluded
295	ALM	rs9276931	A	G	0.8852	-0.03	0.003	4.65E-23	450,243	1.83E-04	82.37	Excluded
296	ALM	rs1705001	A	G	0.2413	0.01	0.002	3.66E-11	450,243	3.66E-05	16.49	Excluded

297	ALM	rs386906	T	C	0.6533	0.02	0.002	6.55E-27	450,243	1.81E-04	81.60	Outlier
298	ALM	rs688209	T	G	0.8021	0.02	0.002	1.26E-16	450,243	1.27E-04	57.18	N/A
299	ALM	rs61431557	T	C	0.1368	0.04	0.003	3.83E-50	450,243	3.78E-04	170.20	N/A
300	ALM	rs3734254	T	C	0.7909	0.03	0.002	2.32E-33	450,243	2.98E-04	134.07	N/A
301	ALM	rs72894776	T	C	0.1245	0.02	0.003	1.74E-15	450,243	8.72E-05	39.26	N/A
302	ALM	rs9394578	A	C	0.2577	-0.02	0.002	2.65E-14	450,243	1.53E-04	68.91	N/A
303	ALM	rs33966734	A	C	0.0136	-0.11	0.008	1.89E-41	450,243	3.25E-04	146.22	N/A
304	ALM	rs7762731	A	G	0.8604	0.02	0.003	3.91E-11	450,243	9.61E-05	43.27	N/A
305	ALM	rs1324538	A	T	0.3836	0.02	0.002	1.73E-34	450,243	1.89E-04	85.18	N/A
306	ALM	rs2208605	T	C	0.2078	0.01	0.002	3.62E-10	450,243	3.29E-05	14.82	N/A
307	ALM	rs6931421	T	G	0.6776	0.03	0.002	2.31E-43	450,243	3.93E-04	177.12	N/A
308	ALM	rs9350850	T	C	0.9204	-0.03	0.003	2.92E-24	450,243	1.32E-04	59.38	N/A
309	ALM	rs34951006	T	G	0.1370	0.02	0.003	3.46E-13	450,243	9.46E-05	42.59	N/A
310	ALM	rs194633	A	C	0.4417	-0.01	0.002	1.62E-14	450,243	4.93E-05	22.21	N/A
311	ALM	rs3813498	T	C	0.8126	0.03	0.002	6.35E-29	450,243	2.74E-04	123.45	N/A
312	ALM	rs1405212	T	C	0.3721	-0.02	0.002	1.10E-21	450,243	1.87E-04	84.17	N/A
313	ALM	rs3966775	A	C	0.5280	0.02	0.002	6.65E-26	450,243	1.99E-04	89.78	N/A
314	ALM	rs9388490	T	C	0.4394	0.05	0.002	1.33E-13	450,243	1.23E-03	555.22	N/A

315	ALM	rs13212016	T	C	0.2707	-0.02	0.002	1.75E-21	450,243	1.58E-04	71.12	N/A
316	ALM	rs72959041	A	G	0.0494	0.04	0.004	1.56E-18	450,243	1.50E-04	67.67	N/A
317	ALM	rs9321170	A	G	0.7272	0.02	0.002	1.15E-16	450,243	1.59E-04	71.47	N/A
318	ALM	rs7740107	A	T	0.7362	-0.05	0.002	7.46E-99	450,243	9.71E-04	437.63	N/A
319	ALM	rs78051210	T	C	0.9229	-0.03	0.004	1.64E-13	450,243	1.28E-04	57.67	N/A
320	ALM	rs6924144	T	G	0.7735	-0.02	0.002	1.40E-14	450,243	1.40E-04	63.11	N/A
321	ALM	rs228433	A	G	0.6181	-0.01	0.002	4.90E-13	450,243	4.72E-05	21.26	Excluded
322	ALM	rs2223966	A	G	0.7651	0.02	0.002	5.63E-17	450,243	1.44E-04	64.74	N/A
323	ALM	rs35686278	A	G	0.2265	0.01	0.002	8.96E-11	450,243	3.50E-05	15.78	N/A
324	ALM	rs9496306	T	C	0.3568	-0.02	0.002	1.06E-14	450,243	1.84E-04	82.68	N/A
325	ALM	rs6570509	T	G	0.2868	-0.02	0.002	1.27E-31	450,243	1.64E-04	73.69	N/A
326	ALM	rs12190712	T	C	0.0947	0.03	0.003	2.51E-17	450,243	1.54E-04	69.49	N/A
327	ALM	rs543650	T	G	0.4013	-0.03	0.002	1.49E-37	450,243	4.32E-04	194.80	N/A
328	ALM	rs2635471	A	G	0.8541	-0.02	0.003	5.04E-12	450,243	9.97E-05	44.89	N/A
329	ALM	rs3828729	A	G	0.6906	0.02	0.002	4.67E-15	450,243	1.71E-04	76.98	N/A
330	ALM	rs668871	T	C	0.4699	0.02	0.002	1.40E-27	450,243	1.99E-04	89.74	N/A
331	ALM	rs7768382	T	C	0.5229	0.02	0.002	1.57E-26	450,243	2.00E-04	89.88	N/A

332	ALM	rs2763263	A	T	0.2445	-0.02	0.002	1.37E-14	450,243	1.48E-04	66.54	N/A
333	ALM	rs798548	T	C	0.6994	0.04	0.002	2.86E-68	450,243	6.73E-04	303.11	N/A
334	ALM	rs76400633	T	C	0.7831	0.02	0.002	5.92E-11	450,243	1.36E-04	61.19	N/A
335	ALM	rs12702693	T	C	0.4542	0.02	0.002	6.56E-20	450,243	1.98E-04	89.31	N/A
336	ALM	rs2389858	A	T	0.4945	0.02	0.002	1.68E-18	450,243	2.00E-04	90.06	N/A
337	ALM	rs12533452	T	C	0.1569	0.02	0.003	1.31E-19	450,243	1.06E-04	47.65	N/A
338	ALM	rs34776209	T	C	0.2475	-0.03	0.002	1.78E-47	450,243	3.35E-04	150.99	N/A
339	ALM	rs2529049	A	G	0.2525	0.01	0.002	1.20E-10	450,243	3.77E-05	17.00	N/A
340	ALM	rs73085996	C	G	0.2319	-0.01	0.002	5.43E-10	450,243	3.56E-05	16.04	N/A
341	ALM	rs12700667	A	G	0.7419	-0.02	0.002	1.30E-17	450,243	1.53E-04	68.98	N/A
342	ALM	rs10951164	C	G	0.4870	0.02	0.002	5.20E-16	450,243	2.00E-04	90.01	N/A
343	ALM	rs1708301	C	G	0.8509	-0.02	0.003	1.99E-18	450,243	1.01E-04	45.70	N/A
344	ALM	rs177592	C	G	0.1013	-0.02	0.003	6.83E-13	450,243	7.28E-05	32.79	N/A
345	ALM	rs62442203	C	G	0.4031	-0.02	0.002	5.12E-23	450,243	1.92E-04	86.68	N/A
346	ALM	rs1717720	A	G	0.3460	-0.01	0.002	2.71E-12	450,243	4.53E-05	20.38	N/A
347	ALM	rs57734857	A	T	0.7958	-0.02	0.002	5.85E-11	450,243	1.30E-04	58.54	N/A
348	ALM	rs10260816	C	G	0.5606	-0.01	0.002	4.06E-13	450,243	4.93E-05	22.18	N/A
349	ALM	rs13237426	T	C	0.9381	0.04	0.004	1.24E-24	450,243	1.86E-04	83.68	N/A

350	ALM	rs723149	A	G	0.4372	0.03	0.002	1.43E-47	450,243	4.43E-04	199.50	N/A
351	ALM	rs2237474	T	G	0.3586	0.02	0.002	1.28E-20	450,243	1.84E-04	82.86	N/A
352	ALM	rs28895377	A	T	0.8847	0.02	0.003	2.36E-16	450,243	8.16E-05	36.74	N/A
353	ALM	rs12698934	A	G	0.1668	0.02	0.003	7.77E-15	450,243	1.11E-04	50.06	N/A
354	ALM	rs12540011	A	G	0.2835	0.02	0.002	3.01E-22	450,243	1.63E-04	73.18	N/A
355	ALM	rs12667702	T	C	0.2051	-0.01	0.002	4.18E-10	450,243	3.26E-05	14.68	Excluded
356	ALM	rs10280623	T	C	0.8030	-0.02	0.002	2.73E-11	450,243	1.27E-04	56.99	N/A
357	ALM	rs78138888	T	C	0.0721	-0.03	0.004	1.45E-13	450,243	1.20E-04	54.23	N/A
358	ALM	rs42039	T	C	0.2444	0.05	0.002	3.53E-106	450,243	9.23E-04	416.11	N/A
359	ALM	rs3763467	T	C	0.8843	0.03	0.003	3.24E-18	450,243	1.84E-04	82.93	N/A
360	ALM	rs987666	A	G	0.1188	0.02	0.003	2.33E-10	450,243	8.37E-05	37.71	N/A
361	ALM	rs62621812	A	G	0.0204	0.07	0.007	3.16E-27	450,243	1.96E-04	88.19	Outlier
362	ALM	rs9690338	A	G	0.9163	-0.02	0.003	1.07E-11	450,243	6.14E-05	27.63	N/A
363	ALM	rs17480616	C	G	0.0307	0.04	0.005	4.50E-13	450,243	9.52E-05	42.88	N/A
364	ALM	rs199610373	A	G	0.8172	-0.03	0.003	5.40E-27	450,243	2.69E-04	121.10	Excluded
365	ALM	rs269232	A	G	0.7042	-0.01	0.002	1.17E-12	450,243	4.17E-05	18.76	N/A

366	ALM	rs822530	A	T	0.2047	-0.03	0.002	2.36E-27	450,243	2.93E-04	131.98	N/A
367	ALM	rs6977416	A	G	0.3338	0.05	0.002	1.43E-113	450,243	1.11E-03	501.17	N/A
368	ALM	rs3918226	T	C	0.0810	-0.04	0.004	1.81E-27	450,243	2.38E-04	107.28	N/A
369	ALM	rs55911644	A	T	0.3609	0.01	0.002	8.93E-13	450,243	4.61E-05	20.77	N/A
370	ALM	rs75140902	T	C	0.0323	-0.04	0.005	4.82E-15	450,243	1.00E-04	45.04	N/A
371	ALM	rs76364830	A	G	0.0634	-0.05	0.004	2.70E-33	450,243	2.97E-04	133.72	N/A
372	ALM	rs7833274	T	G	0.3794	0.01	0.002	9.45E-10	450,243	4.71E-05	21.20	N/A
373	ALM	rs1063582	T	G	0.2351	0.02	0.002	1.12E-16	450,243	1.44E-04	64.78	N/A
374	ALM	rs62501195	A	C	0.8288	0.02	0.003	8.11E-15	450,243	1.14E-04	51.11	N/A
375	ALM	rs2321250	T	C	0.6429	0.01	0.002	2.91E-12	450,243	4.59E-05	20.67	N/A
376	ALM	rs6557894	T	C	0.4648	-0.01	0.002	7.69E-11	450,243	4.98E-05	22.40	N/A
377	ALM	rs7816345	T	C	0.1682	0.03	0.003	6.23E-24	450,243	2.52E-04	113.42	N/A
378	ALM	rs6988165	C	G	0.5730	0.01	0.002	4.18E-12	450,243	4.89E-05	22.03	N/A
379	ALM	rs6984699	A	G	0.7413	-0.02	0.002	1.86E-24	450,243	1.53E-04	69.09	N/A
380	ALM	rs139424516	C	G	0.9783	0.04	0.007	1.49E-10	450,243	6.79E-05	30.59	N/A
381	ALM	rs72656010	T	C	0.8678	0.07	0.003	7.31E-12	450,243	1.12E-03	506.77	N/A

382	ALM	rs62515454	T	C	0.1822	0.04	0.002	1.59E-55	450,243	4.77E-04	214.78	Excluded
383	ALM	rs4737446	T	G	0.6944	0.02	0.002	4.90E-32	450,243	1.70E-04	76.45	N/A
384	ALM	rs16938625	T	C	0.8481	-0.02	0.003	1.55E-13	450,243	1.03E-04	46.41	N/A
385	ALM	rs2925155	T	C	0.2612	-0.02	0.002	5.47E-12	450,243	1.54E-04	69.52	N/A
386	ALM	rs61729527	T	C	0.0519	-0.03	0.004	4.53E-16	450,243	8.86E-05	39.88	N/A
387	ALM	rs4735761	A	C	0.7143	-0.03	0.002	3.66E-56	450,243	3.67E-04	165.45	N/A
388	ALM	rs7014590	T	C	0.7386	0.02	0.002	4.48E-26	450,243	1.54E-04	69.55	N/A
389	ALM	rs7829174	A	G	0.4637	0.01	0.002	2.24E-09	450,243	4.97E-05	22.39	N/A
390	ALM	rs2142331	T	C	0.6023	-0.02	0.002	1.38E-17	450,243	1.92E-04	86.30	N/A
391	ALM	rs11778491	C	G	0.2518	-0.02	0.002	4.05E-28	450,243	1.51E-04	67.87	N/A
392	ALM	rs10283100	A	G	0.0555	-0.06	0.004	4.11E-44	450,243	3.77E-04	170.00	N/A
393	ALM	rs11779459	T	C	0.3545	0.01	0.002	1.37E-13	450,243	4.58E-05	20.61	N/A
394	ALM	rs4870941	C	G	0.2380	-0.03	0.002	1.09E-39	450,243	3.26E-04	147.03	N/A
395	ALM	rs1902789	A	G	0.7493	-0.02	0.002	2.75E-27	450,243	1.50E-04	67.67	N/A
396	ALM	rs7816342	A	G	0.2326	-0.03	0.002	4.08E-35	450,243	3.21E-04	144.71	N/A
397	ALM	rs4733571	T	G	0.6274	-0.01	0.002	6.44E-13	450,243	4.68E-05	21.05	N/A
398	ALM	rs6987355	A	T	0.7991	-0.02	0.002	1.80E-15	450,243	1.28E-04	57.83	N/A

399	ALM	rs12541381	A	G	0.2575	-0.03	0.002	2.81E-49	450,243	3.44E-04	155.00	N/A
400	ALM	rs7821751	A	C	0.7369	-0.02	0.002	2.54E-17	450,243	1.55E-04	69.84	N/A
401	ALM	rs12334478	C	G	0.5036	0.02	0.002	2.27E-17	450,243	2.00E-04	90.06	N/A
402	ALM	rs7015048	T	C	0.5260	0.02	0.002	7.28E-16	450,243	1.99E-04	89.82	N/A
403	ALM	rs186474010	A	G	0.8088	-0.02	0.003	1.09E-09	450,243	1.24E-04	55.71	Excluded
404	ALM	rs73384223	T	C	0.8033	0.02	0.002	1.27E-17	450,243	1.26E-04	56.92	N/A
405	ALM	rs10815323	A	G	0.7963	-0.02	0.002	2.72E-12	450,243	1.30E-04	58.43	N/A
406	ALM	rs56009005	A	G	0.0727	-0.02	0.004	7.20E-11	450,243	5.39E-05	24.28	N/A
407	ALM	rs1341732	A	G	0.5814	-0.01	0.002	7.23E-14	450,243	4.87E-05	21.92	N/A
408	ALM	rs6475052	T	C	0.4110	0.01	0.002	5.60E-11	450,243	4.84E-05	21.80	N/A
409	ALM	rs7858712	A	G	0.0856	-0.03	0.003	1.04E-24	450,243	1.41E-04	63.44	N/A
410	ALM	rs10963680	A	G	0.2436	-0.01	0.002	2.96E-09	450,243	3.69E-05	16.59	N/A
411	ALM	rs12553324	C	G	0.5841	-0.01	0.002	5.42E-13	450,243	4.86E-05	21.88	N/A
412	ALM	rs10814129	A	G	0.1654	-0.02	0.003	1.01E-10	450,243	1.10E-04	49.73	N/A
413	ALM	rs13297831	C	G	0.5717	0.01	0.002	6.99E-13	450,243	4.90E-05	22.05	N/A
414	ALM	rs7029058	T	C	0.3625	-0.01	0.002	1.71E-10	450,243	4.62E-05	20.81	N/A
415	ALM	rs1330826	C	G	0.2268	0.02	0.002	1.04E-12	450,243	1.40E-04	63.17	N/A

416	ALM	rs8181166	C	G	0.4997	0.01	0.002	8.57E-12	450,243	5.00E-05	22.51	N/A
417	ALM	rs12236754	A	G	0.1753	-0.02	0.003	1.68E-22	450,243	1.16E-04	52.08	N/A
418	ALM	rs3901421	C	G	0.4871	0.02	0.002	7.55E-30	450,243	2.00E-04	90.01	N/A
419	ALM	rs10993370	C	G	0.5545	-0.02	0.002	1.90E-19	450,243	1.98E-04	89.00	N/A
420	ALM	rs2236406	T	C	0.6507	-0.04	0.002	1.26E-87	450,243	7.27E-04	327.71	N/A
421	ALM	rs1984119	T	C	0.7441	0.02	0.002	1.27E-26	450,243	1.52E-04	68.60	N/A
422	ALM	rs6477489	A	C	0.7793	-0.04	0.002	5.17E-59	450,243	5.50E-04	247.94	N/A
423	ALM	rs188738880	T	C	0.9605	-0.04	0.005	6.97E-19	450,243	1.21E-04	54.67	N/A
424	ALM	rs10819542	A	G	0.6336	0.01	0.002	2.04E-12	450,243	4.64E-05	20.91	N/A
425	ALM	rs902144	C	G	0.4806	0.01	0.002	7.24E-13	450,243	4.99E-05	22.48	N/A
426	ALM	rs7849060	T	C	0.7100	-0.03	0.002	1.48E-35	450,243	3.71E-04	166.93	N/A
427	ALM	rs1341215	A	G	0.1374	0.02	0.003	6.32E-17	450,243	9.48E-05	42.69	N/A
428	ALM	rs1008158	A	G	0.6581	-0.02	0.002	3.90E-15	450,243	1.80E-04	81.06	N/A
429	ALM	rs1249741	A	T	0.4759	-0.01	0.002	1.77E-13	450,243	4.99E-05	22.46	N/A
430	ALM	rs5010187	A	G	0.5008	0.01	0.002	6.45E-12	450,243	5.00E-05	22.51	N/A
431	ALM	rs12344772	T	G	0.0832	-0.04	0.004	2.00E-36	450,243	2.44E-04	109.93	N/A
432	ALM	rs11553513	C	G	0.0118	-0.05	0.009	1.54E-09	450,243	5.83E-05	26.25	N/A

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433	ALM	rs4837613	C	G	0.4887	-0.02	0.002	3.15E-29	450,243	2.00E-04	90.02	N/A
434	ALM	rs10818576	T	G	0.7608	-0.02	0.002	4.59E-13	450,243	1.46E-04	65.56	N/A
435	ALM	rs4836544	T	C	0.8846	0.02	0.003	4.26E-09	450,243	8.17E-05	36.77	N/A
436	ALM	rs62578126	T	C	0.3721	-0.01	0.002	1.60E-11	450,243	4.67E-05	21.04	N/A
437	ALM	rs3802342	C	G	0.6480	0.01	0.002	1.37E-13	450,243	4.56E-05	20.54	N/A
438	ALM	rs8176672	T	C	0.0627	-0.03	0.004	7.90E-16	450,243	1.06E-04	47.63	N/A
439	ALM	rs13300181	A	G	0.6455	0.01	0.002	7.53E-11	450,243	4.58E-05	20.61	N/A
440	ALM	rs141147400	C	G	0.2921	0.02	0.002	1.23E-15	450,243	1.65E-04	74.49	Excluded
441	ALM	rs10858246	C	G	0.3183	-0.02	0.002	2.35E-20	450,243	1.74E-04	78.17	N/A
442	ALM	rs7020201	C	G	0.5430	0.01	0.002	3.49E-11	450,243	4.96E-05	22.35	N/A
443	ALM	rs72761015	T	C	0.1250	-0.02	0.003	2.76E-14	450,243	8.75E-05	39.40	N/A
444	ALM	rs35288270	T	C	0.8656	0.03	0.003	3.44E-32	450,243	2.09E-04	94.30	N/A
445	ALM	rs35092545	T	G	0.2896	-0.01	0.002	6.00E-12	450,243	4.11E-05	18.53	N/A
446	ALM	rs7087801	T	C	0.2979	-0.02	0.002	7.55E-14	450,243	1.67E-04	75.35	N/A
447	ALM	rs11014285	A	G	0.1654	0.03	0.003	2.89E-40	450,243	2.48E-04	111.90	N/A
448	ALM	rs2808290	T	C	0.5029	0.02	0.002	2.19E-21	450,243	2.00E-04	90.06	N/A

449	ALM	rs1778871	C	G	0.8811	0.02	0.003	6.04E-11	450,243	8.38E-05	37.74	N/A
450	ALM	rs2490302	A	T	0.9137	0.02	0.003	6.24E-11	450,243	6.31E-05	28.40	N/A
451	ALM	rs10776560	T	C	0.4995	-0.02	0.002	7.88E-17	450,243	2.00E-04	90.07	N/A
452	ALM	rs10822055	A	T	0.2349	-0.02	0.002	2.44E-15	450,243	1.44E-04	64.74	N/A
453	ALM	rs61849823	T	C	0.8357	-0.02	0.003	3.16E-14	450,243	1.10E-04	49.46	N/A
454	ALM	rs77974561	A	C	0.0546	-0.03	0.004	1.52E-11	450,243	9.29E-05	41.84	N/A
455	ALM	rs12218358	C	G	0.5639	0.01	0.002	6.49E-10	450,243	4.92E-05	22.15	N/A
456	ALM	rs1171614	T	C	0.2309	0.02	0.002	1.13E-13	450,243	1.42E-04	63.97	N/A
457	ALM	rs10761494	A	T	0.3617	-0.02	0.002	3.06E-14	450,243	1.85E-04	83.17	N/A
458	ALM	rs67527161	T	C	0.7910	0.02	0.002	5.79E-15	450,243	1.32E-04	59.55	N/A
459	ALM	rs224043	T	G	0.5677	-0.02	0.002	1.42E-17	450,243	1.96E-04	88.41	Outlier
460	ALM	rs117880827	T	C	0.9176	0.02	0.003	1.57E-09	450,243	6.05E-05	27.24	N/A
461	ALM	rs7916821	A	G	0.4945	0.02	0.002	3.79E-21	450,243	2.00E-04	90.06	N/A
462	ALM	rs7095472	A	G	0.4665	-0.03	0.002	7.66E-45	450,243	4.48E-04	201.79	N/A
463	ALM	rs68049170	A	G	0.2764	-0.03	0.002	2.69E-34	450,243	3.60E-04	162.15	N/A
464	ALM	rs117543413	T	C	0.0176	-0.07	0.007	2.47E-21	450,243	1.69E-04	76.30	N/A

465	ALM	rs10824747	T	C	0.4994	0.02	0.002	5.28E-19	450,243	2.00E-04	90.07	N/A
466	ALM	rs7910211	T	C	0.8413	-0.02	0.002	1.21E-11	450,243	1.07E-04	48.10	N/A
467	ALM	rs4934377	A	T	0.7297	-0.02	0.002	6.65E-16	450,243	1.58E-04	71.05	N/A
468	ALM	rs2648725	A	T	0.2134	0.02	0.002	8.20E-13	450,243	1.34E-04	60.47	N/A
469	ALM	rs4917612	C	G	0.8665	-0.03	0.003	4.77E-33	450,243	2.08E-04	93.77	N/A
470	ALM	rs573605538	A	T	0.4182	0.01	0.002	1.76E-14	450,243	4.87E-05	21.91	Excluded
471	ALM	rs1247121	A	G	0.4337	0.02	0.002	2.10E-20	450,243	1.96E-04	88.48	N/A
472	ALM	rs291979	A	G	0.2289	0.02	0.002	6.76E-27	450,243	1.41E-04	63.58	N/A
473	ALM	rs10437498	A	G	0.6446	-0.01	0.002	3.30E-10	450,243	4.58E-05	20.63	Excluded
474	ALM	rs75356180	A	T	0.8802	0.02	0.003	1.35E-10	450,243	8.44E-05	37.98	N/A
475	ALM	rs4752689	A	G	0.5839	0.02	0.002	1.36E-26	450,243	1.94E-04	87.53	N/A
476	ALM	rs28445838	A	G	0.6075	0.01	0.002	2.92E-11	450,243	4.77E-05	21.47	N/A
477	ALM	rs4962504	A	G	0.1162	-0.02	0.003	2.13E-10	450,243	8.22E-05	36.99	N/A
478	ALM	rs372532055	A	C	0.3664	0.02	0.002	1.12E-18	450,243	1.86E-04	83.63	Excluded
479	ALM	rs2734498	T	C	0.5798	0.01	0.002	4.51E-15	450,243	4.87E-05	21.94	N/A
480	ALM	rs35506085	A	G	0.1847	-0.03	0.003	7.13E-35	450,243	2.71E-04	122.07	N/A

481	ALM	rs74501871	A	G	0.9063	0.03	0.003	1.63E-25	450,243	1.53E-04	68.83	N/A
482	ALM	rs12271773	A	G	0.1159	0.03	0.003	3.44E-17	450,243	1.84E-04	83.06	N/A
483	ALM	rs143840904	T	C	0.0197	-0.08	0.007	1.46E-30	450,243	2.47E-04	111.32	Excluded
484	ALM	rs4910048	T	C	0.5049	0.02	0.002	1.45E-15	450,243	2.00E-04	90.06	N/A
485	ALM	rs11042717	T	C	0.5104	0.03	0.002	4.04E-53	450,243	4.50E-04	202.61	N/A
486	ALM	rs12226039	T	C	0.5724	0.02	0.002	1.65E-14	450,243	1.96E-04	88.18	Excluded
487	ALM	rs77889556	A	G	0.1674	0.02	0.003	1.40E-16	450,243	1.12E-04	50.21	Excluded
488	ALM	rs10832963	T	G	0.2555	0.02	0.002	9.23E-21	450,243	1.52E-04	68.53	N/A
489	ALM	rs117130980	T	C	0.9872	0.06	0.009	1.13E-10	450,243	9.10E-05	40.97	N/A
490	ALM	rs7396827	T	C	0.464	0.01	0.002	1.12E-12	450,243	4.97E-05	22.40	N/A
491	ALM	rs704660	T	C	0.4095	0.02	0.002	2.28E-15	450,243	1.93E-04	87.11	N/A
492	ALM	rs148683230	A	G	0.1490	0.02	0.003	3.71E-12	450,243	1.01E-04	45.68	N/A
493	ALM	rs113542381	A	G	0.1461	-0.02	0.003	2.07E-11	450,243	9.98E-05	44.94	N/A
494	ALM	rs1164660	T	G	0.5825	-0.02	0.002	5.17E-15	450,243	1.95E-04	87.61	Excluded

495	ALM	rs117292441	T	G	0.0125	0.05	0.009	3.19E-10	450,243	6.17E-05	27.79	N/A
496	ALM	rs28456	A	G	0.6863	0.01	0.002	3.76E-12	450,243	4.31E-05	19.39	N/A
497	ALM	rs7122950	T	C	0.2886	0.01	0.002	7.70E-10	450,243	4.11E-05	18.49	Outlier
498	ALM	rs601310	T	C	0.7513	0.01	0.002	2.79E-10	450,243	3.74E-05	16.83	N/A
499	ALM	rs12790261	A	C	0.0827	-0.05	0.003	5.90E-40	450,243	3.79E-04	170.84	N/A
500	ALM	rs11228182	A	G	0.2958	0.01	0.002	1.89E-09	450,243	4.17E-05	18.76	N/A
501	ALM	rs7129320	A	G	0.1661	-0.04	0.003	7.29E-53	450,243	4.43E-04	199.65	N/A
502	ALM	rs28378931	A	G	0.8934	-0.02	0.003	7.26E-17	450,243	7.62E-05	34.31	N/A
503	ALM	rs10796820	T	G	0.5290	-0.02	0.002	2.59E-22	450,243	1.99E-04	89.76	N/A
504	ALM	rs1789167	A	G	0.3467	-0.01	0.002	3.63E-13	450,243	4.53E-05	20.40	N/A
505	ALM	rs11233117	C	G	0.5465	0.02	0.002	4.66E-23	450,243	1.98E-04	89.29	N/A
506	ALM	rs1876	T	C	0.8892	0.03	0.003	6.85E-21	450,243	1.77E-04	79.86	N/A
507	ALM	rs7902	A	G	0.5531	-0.01	0.002	5.22E-15	450,243	4.94E-05	22.26	N/A
508	ALM	rs604723	T	C	0.2752	0.02	0.002	8.16E-15	450,243	1.60E-04	71.86	N/A
509	ALM	rs11217863	A	G	0.1162	-0.03	0.003	1.06E-19	450,243	1.85E-04	83.24	N/A
510	ALM	rs12222197	T	G	0.5812	0.01	0.002	7.29E-11	450,243	4.87E-05	21.92	N/A
511	ALM	rs7137546	A	T	0.5751	-0.01	0.002	9.71E-14	450,243	4.89E-05	22.01	N/A

512	ALM	rs2159102	A	T	0.3956	-0.01	0.002	3.57E-10	450,243	4.78E-05	21.53	N/A
513	ALM	rs35244030	A	G	0.1648	0.02	0.003	7.50E-22	450,243	1.10E-04	49.58	N/A
514	ALM	rs67551338	T	C	0.0615	0.06	0.004	2.09E-55	450,243	4.16E-04	187.18	N/A
515	ALM	rs76895963	T	G	0.9793	-0.16	0.007	8.23E-112	450,243	1.04E-03	467.79	N/A
516	ALM	rs10845408	T	C	0.3538	0.03	0.002	3.25E-38	450,243	4.12E-04	185.36	N/A
517	ALM	rs2066827	T	G	0.7675	0.02	0.002	1.76E-16	450,243	1.43E-04	64.28	N/A
518	ALM	rs73069098	A	G	0.9308	0.02	0.004	4.28E-10	450,243	5.15E-05	23.20	N/A
519	ALM	rs10770654	A	G	0.3098	-0.02	0.002	6.40E-32	450,243	1.71E-04	77.03	N/A
520	ALM	rs61415458	T	C	0.8668	-0.02	0.003	1.00E-15	450,243	9.24E-05	41.59	N/A
521	ALM	rs61688134	T	C	0.0143	-0.06	0.008	7.88E-15	450,243	1.01E-04	45.70	N/A
522	ALM	rs11047225	T	C	0.4691	-0.01	0.002	4.30E-10	450,243	4.98E-05	22.43	N/A
523	ALM	rs11049576	T	C	0.7072	0.02	0.002	9.49E-20	450,243	1.66E-04	74.60	N/A
524	ALM	rs12831751	A	C	0.7143	-0.02	0.002	1.57E-16	450,243	1.63E-04	73.52	N/A
525	ALM	rs6582398	T	C	0.6002	0.01	0.002	1.14E-12	450,243	4.80E-05	21.61	N/A
526	ALM	rs12828089	A	C	0.1500	-0.02	0.003	3.58E-11	450,243	1.02E-04	45.93	Excluded
527	ALM	rs74082087	A	G	0.9125	-0.02	0.003	1.80E-10	450,243	6.39E-05	28.76	N/A
528	ALM	rs74385174	A	G	0.9808	0.07	0.007	1.54E-25	450,243	1.85E-04	83.11	N/A

529	ALM	rs12099669	A	G	0.6962	0.03	0.002	1.39E-58	450,243	3.81E-04	171.48	N/A
530	ALM	rs73101415	A	G	0.7464	-0.01	0.002	2.06E-11	450,243	3.79E-05	17.05	N/A
531	ALM	rs1990028	A	G	0.7467	0.02	0.002	1.06E-12	450,243	1.51E-04	68.14	N/A
532	ALM	rs61941109	A	G	0.2846	-0.01	0.002	8.56E-12	450,243	4.07E-05	18.33	N/A
533	ALM	rs12309572	T	C	0.1667	-0.02	0.003	4.57E-13	450,243	1.11E-04	50.04	N/A
534	ALM	rs2071450	T	C	0.3675	-0.02	0.002	8.85E-19	450,243	1.86E-04	83.74	N/A
535	ALM	rs17118403	T	C	0.0667	0.03	0.004	4.11E-19	450,243	1.12E-04	50.46	N/A
536	ALM	rs2277339	T	G	0.8961	0.04	0.003	2.00E-30	450,243	2.98E-04	134.18	N/A
537	ALM	rs11172113	T	C	0.5877	0.02	0.002	4.57E-17	450,243	1.94E-04	87.29	N/A
538	ALM	rs17178006	T	G	0.885	0.02	0.003	2.27E-11	450,243	8.14E-05	36.66	N/A
539	ALM	rs10878339	A	G	0.9349	0.04	0.004	1.83E-23	450,243	1.95E-04	87.71	N/A
540	ALM	rs10748128	T	G	0.3446	0.03	0.002	6.77E-38	450,243	4.07E-04	183.11	N/A
541	ALM	rs79237130	A	T	0.1606	-0.02	0.003	1.08E-10	450,243	1.08E-04	48.56	N/A
542	ALM	rs61754233	C	G	0.0200	0.04	0.007	2.36E-10	450,243	6.27E-05	28.24	N/A
543	ALM	rs7976940	A	G	0.9323	0.03	0.004	9.02E-14	450,243	1.14E-04	51.16	N/A
544	ALM	rs7980592	A	G	0.2929	-0.02	0.002	1.46E-13	450,243	1.66E-04	74.61	N/A
545	ALM	rs9634212	A	C	0.2210	0.05	0.002	8.59E-95	450,243	8.61E-04	387.90	N/A
546	ALM	rs7953280	C	G	0.5071	-0.03	0.002	3.20E-64	450,243	4.50E-04	202.66	N/A

547	ALM	rs4399366	T	C	0.2829	-0.02	0.002	7.03E-13	450,243	1.62E-04	73.08	N/A
548	ALM	rs7971536	A	T	0.4945	-0.02	0.002	1.07E-24	450,243	2.00E-04	90.06	N/A
549	ALM	rs66500550	C	G	0.9579	0.04	0.005	2.10E-17	450,243	1.29E-04	58.11	N/A
550	ALM	rs35762	T	C	0.1525	0.02	0.003	4.25E-17	450,243	1.03E-04	46.56	N/A
551	ALM	rs2647873	A	G	0.5180	0.02	0.002	3.21E-23	450,243	2.00E-04	89.95	N/A
552	ALM	rs117441946	A	T	0.0488	-0.03	0.004	9.11E-10	450,243	8.36E-05	37.62	N/A
553	ALM	rs3782709	A	G	0.6442	0.01	0.002	7.53E-11	450,243	4.58E-05	20.64	N/A
554	ALM	rs3764002	T	C	0.2617	0.03	0.002	4.47E-39	450,243	3.48E-04	156.64	N/A
555	ALM	rs1541597	T	G	0.2012	0.01	0.002	4.91E-10	450,243	3.21E-05	14.47	N/A
556	ALM	rs3184504	T	C	0.4830	-0.02	0.002	2.71E-22	450,243	2.00E-04	89.96	N/A
557	ALM	rs1061657	T	C	0.7421	-0.02	0.002	3.53E-16	450,243	1.53E-04	68.95	N/A
558	ALM	rs7305948	T	C	0.1459	-0.02	0.003	5.11E-20	450,243	9.97E-05	44.89	N/A
559	ALM	rs555994863	T	C	0.0191	0.04	0.007	3.85E-09	450,243	6.00E-05	26.99	Excluded
560	ALM	rs7969643	T	C	0.2524	-0.01	0.002	8.75E-11	450,243	3.77E-05	16.99	N/A
561	ALM	rs28576953	T	C	0.2048	0.03	0.002	5.97E-38	450,243	2.93E-04	132.02	N/A
562	ALM	rs7301953	A	G	0.3122	-0.02	0.002	3.86E-20	450,243	1.72E-04	77.36	N/A

563	ALM	rs2229840	T	C	0.1597	0.03	0.003	3.02E-40	450,243	2.42E-04	108.78	N/A
564	ALM	rs885389	A	G	0.3328	0.03	0.002	6.37E-37	450,243	4.00E-04	180.02	N/A
565	ALM	rs6598200	A	G	0.1586	0.02	0.003	8.16E-14	450,243	1.07E-04	48.07	N/A
566	ALM	rs7321635	A	C	0.3535	0.01	0.002	2.58E-11	450,243	4.57E-05	20.58	N/A
567	ALM	rs61944841	A	G	0.4138	0.03	0.002	3.54E-37	450,243	4.37E-04	196.67	Excluded
568	ALM	rs4769763	C	G	0.6076	-0.02	0.002	2.75E-16	450,243	1.91E-04	85.89	N/A
569	ALM	rs17532490	A	G	0.0854	-0.02	0.003	7.45E-10	450,243	6.25E-05	28.14	N/A
570	ALM	rs9594689	T	G	0.6261	0.01	0.002	1.19E-12	450,243	4.68E-05	21.08	Excluded
571	ALM	rs9596092	A	T	0.9139	0.02	0.004	7.80E-12	450,243	6.29E-05	28.34	N/A
572	ALM	rs9591310	T	C	0.1994	-0.02	0.002	1.09E-29	450,243	1.28E-04	57.51	N/A
573	ALM	rs56273425	A	C	0.0255	-0.04	0.006	3.71E-10	450,243	7.95E-05	35.81	N/A
574	ALM	rs3116602	T	G	0.7847	0.06	0.002	9.52E-155	450,243	1.22E-03	548.34	N/A
575	ALM	rs4531637	A	C	0.8530	-0.02	0.003	1.46E-12	450,243	1.00E-04	45.17	Excluded
576	ALM	rs17074618	T	C	0.1535	0.03	0.003	1.82E-24	450,243	2.34E-04	105.33	N/A
577	ALM	rs7328187	T	G	0.5024	-0.01	0.002	1.19E-09	450,243	5.00E-05	22.51	N/A
578	ALM	rs7319334	A	G	0.5194	-0.01	0.002	3.71E-09	450,243	4.99E-05	22.48	N/A
579	ALM	rs3818416	A	C	0.2355	-0.03	0.002	2.01E-35	450,243	3.24E-04	145.96	N/A

580	ALM	rs9515919	A	T	0.3693	0.02	0.002	6.01E-16	450,243	1.86E-04	83.91	N/A
581	ALM	rs9517483	A	G	0.3010	0.02	0.002	2.26E-18	450,243	1.68E-04	75.80	N/A
582	ALM	rs7323466	T	C	0.3488	-0.02	0.002	5.91E-14	450,243	1.82E-04	81.83	N/A
583	ALM	rs78525785	T	C	0.6200	-0.02	0.002	9.81E-18	450,243	1.88E-04	84.88	Excluded
584	ALM	rs8019890	A	C	0.5313	0.03	0.002	1.96E-38	450,243	4.48E-04	201.90	N/A
585	ALM	rs28663442	T	C	0.1761	0.02	0.003	1.11E-19	450,243	1.16E-04	52.27	N/A
586	ALM	rs1004030	T	C	0.5751	0.01	0.002	2.34E-10	450,243	4.89E-05	22.01	N/A
587	ALM	rs45528934	T	C	0.1623	0.03	0.003	1.97E-24	450,243	2.45E-04	110.21	N/A
588	ALM	rs17184689	T	G	0.7452	-0.01	0.002	7.76E-10	450,243	3.80E-05	17.10	N/A
589	ALM	rs36226649	T	C	0.9333	-0.05	0.004	3.05E-37	450,243	3.11E-04	140.18	N/A
590	ALM	rs4344657	C	G	0.7292	-0.02	0.002	7.54E-14	450,243	1.58E-04	71.14	N/A
591	ALM	rs8904	A	G	0.3630	-0.02	0.002	1.52E-15	450,243	1.85E-04	83.30	N/A
592	ALM	rs113053299	A	C	0.0467	0.03	0.005	4.18E-11	450,243	8.01E-05	36.08	N/A
593	ALM	rs10483727	T	C	0.3891	0.04	0.002	6.73E-80	450,243	7.61E-04	342.73	N/A
594	ALM	rs7147987	A	G	0.5387	0.02	0.002	1.36E-23	450,243	1.99E-04	89.53	N/A
595	ALM	rs227447	C	G	0.6664	-0.02	0.002	1.48E-24	450,243	1.78E-04	80.09	N/A
596	ALM	rs2526919	A	G	0.4704	-0.01	0.002	5.54E-12	450,243	4.98E-05	22.43	N/A

597	ALM	rs2070598	A	G	0.4559	0.02	0.002	6.36E-27	450,243	1.98E-04	89.37	Outlier
598	ALM	rs1125773	A	C	0.4800	0.02	0.002	6.29E-16	450,243	2.00E-04	89.92	N/A
599	ALM	rs2295164	T	C	0.4652	-0.01	0.002	5.25E-14	450,243	4.98E-05	22.40	N/A
600	ALM	rs117068593	T	C	0.1895	0.04	0.002	8.83E-62	450,243	4.91E-04	221.40	N/A
601	ALM	rs7156335	T	C	0.9088	-0.03	0.003	3.63E-18	450,243	1.49E-04	67.18	N/A
602	ALM	rs28929474	T	C	0.0198	0.05	0.007	1.05E-14	450,243	9.70E-05	43.70	N/A
603	ALM	rs61985998	T	C	0.4975	0.01	0.002	2.19E-12	450,243	5.00E-05	22.51	N/A
604	ALM	rs3783350	A	G	0.7967	-0.02	0.002	4.88E-11	450,243	1.30E-04	58.35	N/A
605	ALM	rs1190543	A	G	0.2278	-0.02	0.002	8.28E-14	450,243	1.41E-04	63.37	N/A
606	ALM	rs34633205	T	C	0.0685	0.03	0.004	3.71E-12	450,243	1.15E-04	51.72	N/A
607	ALM	rs2174008	C	G	0.4975	-0.02	0.002	5.89E-24	450,243	2.00E-04	90.06	N/A
608	ALM	rs548932774	A	G	0.3472	-0.02	0.002	2.40E-22	450,243	1.81E-04	81.65	Excluded
609	ALM	rs11855017	A	C	0.1817	0.02	0.003	8.85E-14	450,243	1.19E-04	53.56	N/A
610	ALM	rs62020698	T	C	0.0917	-0.02	0.003	8.58E-14	450,243	6.66E-05	30.00	N/A
611	ALM	rs76825670	A	G	0.7834	-0.02	0.002	4.87E-12	450,243	1.36E-04	61.13	Excluded
612	ALM	rs37373636	T	G	0.2843	-0.02	0.002	4.53E-18	450,243	1.63E-04	73.30	Excluded

613	ALM	rs1550327	T	C	0.6078	0.01	0.002	4.75E-09	450,243	4.77E-05	21.47	N/A
614	ALM	rs62043796	T	C	0.8939	-0.02	0.003	1.02E-12	450,243	7.59E-05	34.16	N/A
615	ALM	rs17205463	T	C	0.4477	-0.03	0.002	4.21E-43	450,243	4.45E-04	200.48	N/A
616	ALM	rs72753851	C	G	0.7773	0.01	0.002	3.62E-11	450,243	3.46E-05	15.59	N/A
617	ALM	rs2278604	A	C	0.2684	0.03	0.002	6.60E-40	450,243	3.53E-04	159.19	N/A
618	ALM	rs7179372	A	G	0.2063	-0.01	0.002	5.57E-11	450,243	3.27E-05	14.75	N/A
619	ALM	rs35874463	A	G	0.9423	-0.03	0.004	2.92E-12	450,243	9.79E-05	44.07	N/A
620	ALM	rs2680338	A	G	0.5829	-0.02	0.002	9.84E-17	450,243	1.95E-04	87.59	N/A
621	ALM	rs5742915	T	C	0.5395	-0.02	0.002	9.33E-39	450,243	1.99E-04	89.50	N/A
622	ALM	rs7170787	A	G	0.2516	0.02	0.002	2.94E-18	450,243	1.51E-04	67.83	N/A
623	ALM	rs7177344	T	C	0.2607	-0.02	0.002	2.51E-14	450,243	1.54E-04	69.43	N/A
624	ALM	rs2202885	T	C	0.7057	0.01	0.002	9.41E-10	450,243	4.15E-05	18.70	N/A
625	ALM	rs11638600	A	G	0.3276	-0.02	0.002	1.85E-29	450,243	1.76E-04	79.36	N/A
626	ALM	rs72765638	C	G	0.1220	-0.02	0.003	5.48E-17	450,243	8.57E-05	38.59	N/A
627	ALM	rs11633371	T	G	0.4764	0.02	0.002	1.30E-27	450,243	2.00E-04	89.87	N/A
628	ALM	rs56238630	T	C	0.9708	0.07	0.006	6.58E-39	450,243	2.78E-04	125.11	N/A
629	ALM	rs34949187	A	G	0.1864	-0.03	0.002	4.75E-40	450,243	2.73E-04	122.94	N/A

630	ALM	rs961288	C	G	0.4132	0.01	0.002	1.11E-12	450,243	4.85E-05	21.83	N/A
631	ALM	rs4702	A	G	0.5566	-0.01	0.002	6.30E-13	450,243	4.94E-05	22.22	Outlier
632	ALM	rs74379684	T	C	0.0751	-0.03	0.004	4.39E-14	450,243	1.25E-04	56.30	N/A
633	ALM	rs8035878	T	C	0.4523	0.01	0.002	1.17E-12	450,243	4.95E-05	22.31	N/A
634	ALM	rs7402983	A	C	0.3983	0.02	0.002	3.71E-23	450,243	1.92E-04	86.34	N/A
635	ALM	rs2871865	C	G	0.8841	0.05	0.003	3.40E-62	450,243	5.12E-04	230.79	N/A
636	ALM	rs8035410	C	G	0.8351	0.03	0.003	1.76E-23	450,243	2.48E-04	111.63	N/A
637	ALM	rs3848364	T	G	0.7342	0.01	0.002	2.16E-11	450,243	3.90E-05	17.57	N/A
638	ALM	rs12051245	T	C	0.7682	-0.03	0.002	2.56E-40	450,243	3.21E-04	144.36	N/A
639	ALM	rs73483874	T	C	0.6888	-0.02	0.002	1.05E-14	450,243	1.71E-04	77.22	Excluded
640	ALM	rs548411	T	G	0.2455	-0.02	0.002	5.93E-17	450,243	1.48E-04	66.73	N/A
641	ALM	rs2092389	T	C	0.2081	-0.02	0.002	1.03E-15	450,243	1.32E-04	59.37	N/A
642	ALM	rs8046527	C	G	0.1310	0.02	0.003	6.30E-10	450,243	9.11E-05	41.01	N/A
643	ALM	rs3784828	T	C	0.1274	0.02	0.003	2.18E-12	450,243	8.89E-05	40.05	N/A
644	ALM	rs35816944	A	G	0.0066	-0.11	0.011	2.49E-23	450,243	1.59E-04	71.45	N/A
645	ALM	rs116092985	A	G	0.9042	0.04	0.003	1.17E-34	450,243	2.77E-04	124.84	Excluded
646	ALM	rs11280547	A	G	0.2622	-0.02	0.002	1.58E-27	450,243	1.55E-04	69.69	Excluded

		6										
647	ALM	rs74367875	T	C	0.0350	0.05	0.005	1.26E-17	450,243	1.69E-04	76.05	Excluded
648	ALM	rs1045475	A	G	0.1782	-0.02	0.003	1.95E-19	450,243	1.17E-04	52.75	N/A
649	ALM	rs2908660	T	C	0.5649	-0.01	0.002	2.05E-09	450,243	4.92E-05	22.13	N/A
650	ALM	rs9924441	T	C	0.2539	0.01	0.002	2.21E-10	450,243	3.79E-05	17.06	N/A
651	ALM	rs246177	T	C	0.3681	0.02	0.002	2.04E-27	450,243	1.86E-04	83.80	N/A
652	ALM	rs1136001	T	G	0.2965	-0.02	0.002	3.02E-16	450,243	1.67E-04	75.14	N/A
653	ALM	rs9939257	T	C	0.5101	0.02	0.002	4.31E-15	450,243	2.00E-04	90.03	Excluded
654	ALM	rs78457529	T	C	0.0117	-0.09	0.009	1.22E-24	450,243	1.87E-04	84.36	N/A
655	ALM	rs4788218	T	C	0.5990	-0.03	0.002	5.53E-46	450,243	4.32E-04	194.75	N/A
656	ALM	rs62033029	A	G	0.2064	-0.01	0.002	1.73E-09	450,243	3.28E-05	14.75	N/A
657	ALM	rs72801843	A	T	0.3015	0.03	0.002	8.83E-52	450,243	3.79E-04	170.74	N/A
658	ALM	rs55872725	T	C	0.4038	0.02	0.002	1.23E-32	450,243	1.93E-04	86.73	N/A
659	ALM	rs7203984	A	C	0.8067	-0.02	0.002	1.85E-12	450,243	1.25E-04	56.17	N/A
660	ALM	rs35268848	A	C	0.0119	0.07	0.01	2.83E-13	450,243	1.15E-04	51.89	N/A
661	ALM	rs4985445	A	G	0.5435	0.02	0.002	3.30E-20	450,243	1.98E-04	89.38	N/A
662	ALM	rs4788811	A	G	0.8589	0.02	0.003	3.14E-12	450,243	9.70E-05	43.66	N/A
663	ALM	rs54309977	A	G	0.1822	0.02	0.003	1.89E-10	450,243	1.19E-04	53.68	Excluded

		7										
664	ALM	rs2925979	T	C	0.2999	0.01	0.002	1.61E-11	450,243	4.20E-05	18.91	N/A
665	ALM	rs28377284	C	G	0.1960	-0.02	0.002	7.28E-21	450,243	1.26E-04	56.77	N/A
666	ALM	rs9319453	T	G	0.6671	-0.01	0.002	2.39E-09	450,243	4.44E-05	20.00	N/A
667	ALM	rs56360131	T	C	0.1955	-0.02	0.002	3.85E-11	450,243	1.26E-04	56.66	N/A
668	ALM	rs34406692	T	C	0.0655	0.03	0.004	6.49E-14	450,243	1.10E-04	49.61	N/A
669	ALM	rs8054549	A	C	0.4486	-0.03	0.002	3.37E-39	450,243	4.45E-04	200.56	N/A
670	ALM	rs112898929	A	T	0.0797	-0.03	0.004	9.59E-17	450,243	1.32E-04	59.45	N/A
671	ALM	rs76520574	T	C	0.0413	-0.05	0.005	4.13E-22	450,243	1.98E-04	89.15	Excluded
672	ALM	rs45580931	T	C	0.0428	-0.03	0.005	3.83E-11	450,243	7.37E-05	33.20	Excluded
673	ALM	rs2968478	T	G	0.4174	0.01	0.002	5.60E-14	450,243	4.86E-05	21.90	N/A
674	ALM	rs62070319	T	C	0.4427	-0.02	0.002	2.54E-20	450,243	1.97E-04	88.88	Excluded
675	ALM	rs2663343	A	G	0.3124	-0.02	0.002	6.83E-15	450,243	1.72E-04	77.38	Excluded
676	ALM	rs9905106	T	C	0.2646	0.02	0.002	7.51E-14	450,243	1.56E-04	70.10	N/A
677	ALM	rs72820359	A	G	0.0733	-0.02	0.004	4.22E-11	450,243	5.43E-05	24.47	N/A
678	ALM	rs413016	T	C	0.2642	0.02	0.002	3.79E-16	450,243	1.56E-04	70.03	N/A
679	ALM	rs57513571	T	C	0.2004	-0.02	0.002	1.62E-11	450,243	1.28E-04	57.72	N/A

680	ALM	rs9905997	A	G	0.5457	-0.01	0.002	6.59E-10	450,243	4.96E-05	22.33	N/A
681	ALM	rs34914463	T	C	0.8687	-0.04	0.003	9.81E-40	450,243	3.65E-04	164.39	N/A
682	ALM	rs78378222	T	G	0.9877	-0.14	0.009	4.51E-56	450,243	4.76E-04	214.52	N/A
683	ALM	rs7223668	A	G	0.4712	-0.01	0.002	2.24E-11	450,243	4.98E-05	22.44	N/A
684	ALM	rs1242507	A	G	0.5613	0.01	0.002	9.71E-12	450,243	4.92E-05	22.17	Excluded
685	ALM	rs7213608	T	C	0.6750	0.03	0.002	9.63E-39	450,243	3.95E-04	177.86	N/A
686	ALM	rs11545700	A	C	0.1251	-0.02	0.003	7.84E-18	450,243	8.76E-05	39.43	N/A
687	ALM	rs74411146	A	G	0.9575	-0.03	0.005	3.59E-10	450,243	7.32E-05	32.98	N/A
688	ALM	rs72823964	T	C	0.1321	0.03	0.003	1.07E-24	450,243	2.06E-04	92.94	N/A
689	ALM	rs57812147	A	G	0.0659	-0.04	0.004	1.77E-20	450,243	1.97E-04	88.71	N/A
690	ALM	rs6505216	T	G	0.2330	-0.05	0.002	1.83E-101	450,243	8.94E-04	402.67	Excluded
691	ALM	rs2854332	A	T	0.6993	-0.02	0.002	1.58E-25	450,243	1.68E-04	75.75	N/A
692	ALM	rs2338115	T	C	0.5555	0.03	0.002	1.04E-39	450,243	4.44E-04	200.20	N/A
693	ALM	rs190471737	A	G	0.9332	-0.02	0.004	4.40E-10	450,243	4.99E-05	22.45	N/A
694	ALM	rs8073219	A	G	0.2564	0.02	0.002	2.52E-12	450,243	1.53E-04	68.68	N/A
695	ALM	rs12603963	T	C	0.6303	-0.01	0.002	3.72E-09	450,243	4.66E-05	20.98	Excluded

696	ALM	rs45445495	A	C	0.0495	-0.04	0.005	1.20E-18	450,243	1.51E-04	67.80	N/A
697	ALM	rs11867858	T	C	0.2076	0.02	0.002	1.53E-11	450,243	1.32E-04	59.26	N/A
698	ALM	rs197907	C	G	0.2778	-0.01	0.002	2.07E-10	450,243	4.01E-05	18.07	N/A
699	ALM	rs118127175	T	G	0.0372	-0.04	0.005	1.76E-17	450,243	1.15E-04	51.61	N/A
700	ALM	rs28613067	A	G	0.2768	0.02	0.002	1.30E-26	450,243	1.60E-04	72.12	N/A
701	ALM	rs78270829	T	G	0.9820	-0.05	0.007	1.56E-10	450,243	8.84E-05	39.80	N/A
702	ALM	rs4794005	A	G	0.4444	0.02	0.002	8.84E-15	450,243	1.98E-04	88.95	N/A
703	ALM	rs9303375	A	G	0.0597	0.03	0.004	1.46E-13	450,243	1.01E-04	45.50	N/A
704	ALM	rs72829750	T	C	0.4001	-0.02	0.002	2.15E-19	450,243	1.92E-04	86.47	N/A
705	ALM	rs73991579	A	G	0.9133	-0.02	0.003	6.09E-14	450,243	6.33E-05	28.52	N/A
706	ALM	rs8073455	T	C	0.4941	-0.01	0.002	1.91E-11	450,243	5.00E-05	22.51	N/A
707	ALM	rs56251713	A	T	0.6235	-0.01	0.002	1.13E-11	450,243	4.69E-05	21.14	Excluded
708	ALM	rs9905385	A	G	0.3293	0.03	0.002	1.94E-63	450,243	3.98E-04	179.06	N/A
709	ALM	rs2079796	C	G	0.3702	0.02	0.002	7.30E-21	450,243	1.87E-04	84.00	N/A
710	ALM	rs11657101	A	G	0.3612	0.02	0.002	3.42E-16	450,243	1.85E-04	83.12	N/A
711	ALM	rs78119823	A	T	0.0459	-0.03	0.005	4.70E-11	450,243	7.88E-05	35.49	N/A
712	ALM	rs2005172	A	C	0.3603	-0.05	0.002	2.35E-12	450,243	1.15E-03	519.47	N/A

713	ALM	rs11568828	T	C	0.8826	0.06	0.003	8.06E-81	450,243	7.46E-04	336.15	Excluded
714	ALM	rs7225219	A	T	0.6584	-0.01	0.002	1.51E-12	450,243	4.50E-05	20.25	N/A
715	ALM	rs2676298	T	C	0.8530	-0.03	0.003	2.39E-23	450,243	2.26E-04	101.64	N/A
716	ALM	rs12452505	C	G	0.8578	0.03	0.003	6.61E-23	450,243	2.20E-04	98.88	N/A
717	ALM	rs77542162	A	G	0.9774	-0.06	0.006	1.49E-19	450,243	1.59E-04	71.62	N/A
718	ALM	rs12451722	T	C	0.585	-0.02	0.002	1.35E-21	450,243	1.94E-04	87.46	N/A
719	ALM	rs173135	T	C	0.1150	-0.03	0.003	3.25E-30	450,243	1.83E-04	82.50	N/A
720	ALM	rs236532	T	C	0.6077	-0.02	0.002	2.26E-16	450,243	1.91E-04	85.89	N/A
721	ALM	rs9909320	T	G	0.4422	-0.02	0.002	2.25E-16	450,243	1.97E-04	88.86	N/A
722	ALM	rs820212	T	C	0.3748	-0.01	0.002	2.54E-10	450,243	4.69E-05	21.10	N/A
723	ALM	rs36000545	A	G	0.6043	0.02	0.002	2.56E-29	450,243	1.91E-04	86.15	N/A
724	ALM	rs28507130	A	T	0.3657	0.02	0.002	7.16E-23	450,243	1.86E-04	83.57	Excluded
725	ALM	rs4969474	A	G	0.4187	-0.01	0.002	1.27E-10	450,243	4.87E-05	21.92	N/A
726	ALM	rs12602034	T	C	0.6353	-0.02	0.002	4.28E-19	450,243	1.85E-04	83.47	N/A
727	ALM	rs4121583	T	C	0.6192	0.01	0.002	4.62E-09	450,243	4.72E-05	21.23	Excluded
728	ALM	rs1786263	T	G	0.6055	-0.02	0.002	1.03E-22	450,243	1.91E-04	86.06	N/A
729	ALM	rs72882867	T	C	0.0429	-0.03	0.005	1.26E-12	450,243	7.39E-05	33.28	N/A

730	ALM	rs113232639	A	G	0.4930	0.03	0.002	4.79E-64	450,243	4.50E-04	202.66	N/A
731	ALM	rs9957318	A	G	0.6520	-0.02	0.002	1.02E-20	450,243	1.82E-04	81.74	N/A
732	ALM	rs12962050	A	G	0.6445	0.02	0.002	1.52E-14	450,243	1.83E-04	82.54	Outlier
733	ALM	rs1460510	T	C	0.2748	0.01	0.002	1.34E-09	450,243	3.99E-05	17.95	N/A
734	ALM	rs111219378	T	C	0.1289	-0.02	0.003	2.32E-11	450,243	8.98E-05	40.45	Excluded
735	ALM	rs7229520	A	G	0.6616	-0.02	0.002	2.57E-34	450,243	1.79E-04	80.66	N/A
736	ALM	rs33973388	T	G	0.4353	0.02	0.002	1.45E-38	450,243	1.97E-04	88.56	N/A
737	ALM	rs73441521	T	G	0.9489	0.02	0.004	1.98E-09	450,243	3.88E-05	17.47	N/A
738	ALM	rs17065909	T	C	0.1760	-0.02	0.003	1.41E-15	450,243	1.16E-04	52.24	N/A
739	ALM	rs74494415	T	C	0.0398	-0.04	0.005	1.82E-17	450,243	1.22E-04	55.07	N/A
740	ALM	rs60389750	T	C	0.3139	-0.02	0.002	1.06E-16	450,243	1.72E-04	77.59	N/A
741	ALM	rs8112948	A	T	0.2856	-0.03	0.002	4.24E-42	450,243	3.67E-04	165.42	Excluded
742	ALM	rs12610084	A	G	0.2017	0.02	0.002	1.22E-13	450,243	1.29E-04	58.00	N/A
743	ALM	rs56208656	A	G	0.1103	-0.03	0.003	2.99E-17	450,243	1.77E-04	79.55	Excluded
744	ALM	rs732716	A	G	0.7038	-0.02	0.002	5.82E-16	450,243	1.67E-04	75.10	N/A
745	ALM	rs8887	T	C	0.4284	0.01	0.002	8.09E-12	450,243	4.90E-05	22.05	N/A

746	ALM	rs7508325	A	G	0.1839	-0.02	0.002	2.16E-13	450,243	1.20E-04	54.06	N/A
747	ALM	rs2602713	A	C	0.5603	-0.02	0.002	1.68E-29	450,243	1.97E-04	88.76	N/A
748	ALM	rs1864193	A	C	0.1416	-0.02	0.003	4.79E-16	450,243	9.72E-05	43.79	N/A
749	ALM	rs8107967	A	G	0.4341	0.02	0.002	9.52E-20	450,243	1.97E-04	88.50	N/A
750	ALM	rs35279560	T	G	0.3091	0.02	0.002	1.01E-13	450,243	1.71E-04	76.93	N/A
751	ALM	rs62621197	T	C	0.0372	-0.04	0.005	1.11E-17	450,243	1.15E-04	51.61	Excluded
752	ALM	rs12979274	T	C	0.4845	-0.02	0.002	3.03E-16	450,243	2.00E-04	89.98	N/A
753	ALM	rs8104479	A	G	0.1506	-0.02	0.003	8.85E-12	450,243	1.02E-04	46.08	N/A
754	ALM	rs10948	T	G	0.6638	-0.03	0.002	3.43E-36	450,243	4.02E-04	180.94	N/A
755	ALM	rs2421206	T	G	0.6567	0.02	0.002	3.86E-18	450,243	1.80E-04	81.22	N/A
756	ALM	rs1042164	T	C	0.1837	-0.02	0.002	2.11E-12	450,243	1.20E-04	54.02	N/A
757	ALM	rs7246865	A	G	0.2606	-0.02	0.002	9.89E-22	450,243	1.54E-04	69.42	N/A
758	ALM	rs7260450	T	G	0.3723	-0.01	0.002	1.01E-12	450,243	4.67E-05	21.04	N/A
759	ALM	rs34647936	T	G	0.8146	0.02	0.002	3.61E-24	450,243	1.21E-04	54.41	N/A
760	ALM	rs2287821	T	C	0.5091	-0.02	0.002	6.95E-16	450,243	2.00E-04	90.04	N/A
761	ALM	rs28616221	A	G	0.1794	-0.02	0.003	5.59E-14	450,243	1.18E-04	53.03	N/A
762	ALM	rs7249000	C	G	0.8363	-0.02	0.003	2.06E-09	450,243	1.10E-04	49.32	N/A
763	ALM	rs62108897	A	C	0.5246	-0.02	0.002	7.73E-19	450,243	2.00E-04	89.85	N/A

764	ALM	rs34934920	T	C	0.0250	-0.04	0.006	4.14E-09	450,243	7.80E-05	35.12	N/A
765	ALM	rs304724	T	C	0.5322	0.01	0.002	1.30E-10	450,243	4.98E-05	22.42	N/A
766	ALM	rs8105903	A	C	0.5496	0.01	0.002	2.02E-12	450,243	4.95E-05	22.29	N/A
767	ALM	rs45474992	T	C	0.0362	-0.06	0.005	2.17E-33	450,243	2.51E-04	113.13	Excluded
768	ALM	rs12986064	T	C	0.4889	-0.01	0.002	4.31E-14	450,243	5.00E-05	22.50	Excluded
769	ALM	rs4252548	T	C	0.0218	-0.08	0.006	4.84E-35	450,243	2.73E-04	122.93	N/A
770	ALM	rs147110934	T	G	0.0243	-0.07	0.006	9.39E-32	450,243	2.32E-04	104.64	N/A
771	ALM	rs55706256	T	G	0.3783	0.01	0.002	8.90E-13	450,243	4.70E-05	21.18	N/A
772	ALM	rs2236096	T	C	0.7673	-0.02	0.002	1.29E-15	450,243	1.43E-04	64.32	N/A
773	ALM	rs1741344	T	C	0.6345	-0.01	0.002	4.87E-12	450,243	4.64E-05	20.88	N/A
774	ALM	rs6054390	A	G	0.6280	-0.02	0.002	1.45E-21	450,243	1.87E-04	84.16	N/A
775	ALM	rs2650965	A	G	0.6707	0.01	0.002	6.34E-14	450,243	4.42E-05	19.89	N/A
776	ALM	rs4815952	T	C	0.4779	0.02	0.002	1.69E-17	450,243	2.00E-04	89.89	N/A
777	ALM	rs6117726	T	C	0.5064	-0.01	0.002	7.44E-14	450,243	5.00E-05	22.51	N/A
778	ALM	rs889509	A	G	0.5827	0.01	0.002	2.42E-12	450,243	4.86E-05	21.90	N/A
779	ALM	rs73125634	T	G	0.2782	-0.02	0.002	5.11E-20	450,243	1.61E-04	72.34	N/A
780	ALM	rs76657242	T	C	0.0627	-0.03	0.004	4.98E-12	450,243	1.06E-04	47.63	N/A

781	ALM	rs6082354	A	C	0.3325	0.02	0.002	1.19E-32	450,243	1.78E-04	79.96	N/A
782	ALM	rs74397018	A	G	0.0431	-0.03	0.005	1.18E-11	450,243	7.42E-05	33.43	N/A
783	ALM	rs910085	T	G	0.6128	0.02	0.002	2.88E-19	450,243	1.90E-04	85.48	N/A
784	ALM	rs34879158	A	C	0.7370	0.04	0.002	1.55E-63	450,243	6.20E-04	279.44	N/A
785	ALM	rs143384	A	G	0.5962	-0.07	0.002	1.00E-200	450,243	2.36E-03	1064.77	N/A
786	ALM	rs150260898	A	G	0.9286	0.04	0.004	1.12E-25	450,243	2.12E-04	95.55	N/A
787	ALM	rs1001352	T	C	0.8165	0.02	0.002	2.11E-21	450,243	1.20E-04	53.97	N/A
788	ALM	rs2224538	T	C	0.6362	0.02	0.002	6.28E-25	450,243	1.85E-04	83.38	N/A
789	ALM	rs6129863	A	G	0.2223	-0.02	0.002	3.10E-12	450,243	1.38E-04	62.28	N/A
790	ALM	rs7268343	A	G	0.1223	0.02	0.003	1.34E-09	450,243	8.59E-05	38.67	N/A
791	ALM	rs6063534	T	C	0.5187	-0.02	0.002	1.51E-19	450,243	2.00E-04	89.94	N/A
792	ALM	rs2182356	T	G	0.7327	-0.02	0.002	5.52E-21	450,243	1.57E-04	70.56	N/A
793	ALM	rs6026214	A	C	0.4261	0.01	0.002	1.34E-14	450,243	4.89E-05	22.02	N/A
794	ALM	rs6026578	C	G	0.3750	0.02	0.002	3.08E-14	450,243	1.88E-04	84.44	N/A
795	ALM	rs73619441	T	G	0.8563	0.02	0.003	3.04E-09	450,243	9.84E-05	44.33	N/A
796	ALM	rs4818280	T	C	0.6269	-0.01	0.002	2.84E-10	450,243	4.68E-05	21.06	N/A

797	ALM	rs73197345	A	T	0.1367	0.02	0.003	3.55E-14	450,243	9.44E-05	42.51	N/A
798	ALM	rs2212926	A	C	0.2106	-0.02	0.002	7.75E-21	450,243	1.33E-04	59.89	N/A
799	ALM	rs2298333	T	C	0.5677	-0.03	0.002	9.58E-44	450,243	4.42E-04	198.98	Excluded
800	ALM	rs8133910	T	G	0.2560	0.02	0.002	3.35E-22	450,243	1.52E-04	68.61	Excluded
801	ALM	rs165849	A	G	0.6975	0.02	0.002	4.57E-14	450,243	1.69E-04	76.01	Outlier
802	ALM	rs134040	A	G	0.5235	0.01	0.002	2.54E-09	450,243	4.99E-05	22.46	N/A
803	ALM	rs5763821	A	C	0.6093	-0.02	0.002	1.06E-21	450,243	1.90E-04	85.76	Excluded
804	ALM	rs5750482	T	C	0.3710	-0.01	0.002	4.63E-12	450,243	4.67E-05	21.01	N/A
805	ALM	rs11570645	A	G	0.9424	0.03	0.004	1.45E-11	450,243	9.77E-05	44.00	N/A
806	ALM	rs2008174	T	C	0.7408	0.02	0.002	3.71E-14	450,243	1.54E-04	69.17	N/A
807	ALM	rs202637	A	G	0.1835	-0.02	0.003	1.16E-15	450,243	1.20E-04	53.97	N/A
808	ALM	rs41311445	A	C	0.9042	0.03	0.003	4.73E-24	450,243	1.56E-04	70.21	N/A
809	ALM	rs139030	A	G	0.7773	-0.02	0.002	3.07E-11	450,243	1.38E-04	62.36	N/A
810	ALM	rs9330813	A	G	0.3154	-0.02	0.002	6.87E-15	450,243	1.73E-04	77.79	N/A
1	Hand grip strength	rs11642015	T	C	0.4023	-0.004	0.0003	1.481E-40	334925	-0.01108	3670.1838	N/A
2	Hand grip strength	rs13135092	A	G	0.9169	0.005	0.0005	1.524E-23	334925	0.0026332	884.23818	N/A

3	Hand grip strength	rs10203386	A	T	0.4520	-0.003	0.0003	1.524E-23	334925	-0.00856	2842.6175	N/A
4	Hand grip strength	rs35142762	T	C	0.8282	-0.004	0.0004	1.524E-23	334925	-0.004917	1638.8126	N/A
5	Hand grip strength	rs539515	A	C	0.7924	0.003	0.0003	1.524E-23	334925	0.005685	1914.9128	N/A
6	Hand grip strength	rs62107261	T	C	0.9518	-0.006	0.0007	1.022E-17	334925	-0.001359	454.52456	N/A
7	Hand grip strength	rs2744475	C	G	0.7084	0.003	0.0003	1.524E-23	334925	0.0071388	2408.1232	N/A
8	Hand grip strength	rs2726036	A	C	0.5991	0.003	0.0003	1.524E-23	334925	0.0083003	2803.2147	N/A
9	Hand grip strength	rs34633411	T	C	0.2374	-0.003	0.0003	1.524E-23	334925	-0.006257	2082.428	Outlier
10	Hand grip strength	rs11039266	T	G	0.7219	-0.003	0.0003	1.524E-23	334925	-0.006938	2307.6848	N/A
11	Hand grip strength	rs8073510	A	G	0.8045	0.003	0.0004	6.382E-14	334925	0.0040765	1370.9111	N/A

12	Hand grip strength	rs1243182	T	C	0.3108	-0.002	0.0003	2.617E-11	334925	-0.004935	1644.7436	N/A
13	Hand grip strength	rs11645565	A	G	0.4308	-0.002	0.0003	2.617E-11	334925	-0.005649	1881.4986	N/A
14	Hand grip strength	rs2260051	A	T	0.4425	0.002	0.0003	2.617E-11	334925	0.0056836	1914.4475	Excluded
15	Hand grip strength	rs2431112	A	G	0.4407	-0.002	0.0003	2.617E-11	334925	-0.005679	1891.2046	Outlier
16	Hand grip strength	rs9469899	A	G	0.3572	-0.002	0.0003	2.617E-11	334925	-0.00529	1762.4057	N/A
17	Hand grip strength	rs1642294	C	G	0.1450	0.003	0.0004	6.382E-14	334925	0.0032133	1079.6782	N/A
18	Hand grip strength	rs3771498	T	C	0.5169	0.002	0.0003	2.617E-11	334925	0.0057532	1938.0246	N/A
19	Hand grip strength	rs4549685	T	C	0.3305	0.002	0.0003	2.617E-11	334925	0.0050978	1716.1356	N/A
20	Hand grip strength	rs6711390	T	C	0.3604	0.002	0.0003	2.617E-11	334925	0.0053108	1788.1986	N/A

21	Hand grip strength	rs11873305	A	C	0.9608	-0.005	0.0007	9.141E-13	334925	-0.00093	311.09185	N/A
22	Hand grip strength	rs1556659	T	C	0.3832	0.002	0.0003	2.617E-11	334925	0.0054455	1833.7967	N/A
23	Hand grip strength	rs7165759	A	G	0.2981	0.002	0.0003	2.617E-11	334925	0.0048206	1622.3546	N/A
24	Hand grip strength	rs62512210	T	C	0.9142	-0.004	0.0005	1.244E-15	334925	-0.002169	724.73443	N/A
25	Hand grip strength	rs7571826	T	C	0.3275	-0.002	0.0003	2.617E-11	334925	-0.005074	1690.8901	N/A
26	Hand grip strength	rs11671304	T	C	0.6729	-0.002	0.0003	2.617E-11	334925	-0.005071	1689.8348	N/A
27	Hand grip strength	rs72917544	A	G	0.1861	0.003	0.0004	6.382E-14	334925	0.0039259	1320.0434	N/A
28	Hand grip strength	rs13130484	T	C	0.4333	-0.002	0.0003	2.617E-11	334925	-0.005657	1884.0908	N/A
29	Hand grip strength	rs2287226	A	G	0.6019	0.002	0.0003	2.617E-11	334925	0.0055205	1859.2193	N/A

30	Hand grip strength	rs34517439	A	C	0.1247	-0.003	0.0004	6.382E-14	334925	-0.002829	944.84142	N/A
31	Hand grip strength	rs563296	A	G	0.5598	-0.002	0.0003	2.617E-11	334925	-0.005677	1890.7503	N/A
32	Hand grip strength	rs10788958	C	G	0.3512	-0.002	0.0003	2.617E-11	334925	-0.00525	1749.0465	N/A
33	Hand grip strength	rs2760975	A	G	0.1680	-0.003	0.0004	6.382E-14	334925	-0.003623	1208.995	rs2760976
34	Hand grip strength	rs11766468	A	G	0.1467	0.003	0.0004	6.382E-14	334925	0.0032445	1090.1987	N/A
35	Hand grip strength	rs113315602	A	C	0.9027	0.003	0.0005	1.973E-09	334925	0.0018212	611.08326	N/A
36	Hand grip strength	rs245774	A	G	0.2717	0.002	0.0003	2.617E-11	334925	0.004559	1533.8904	N/A
37	Hand grip strength	rs12367809	T	C	0.3684	-0.002	0.0003	2.617E-11	334925	-0.005361	1785.8696	N/A
38	Hand grip strength	rs147730268	T	G	0.0883	0.003	0.0005	1.973E-09	334925	0.0016692	560.00337	N/A

39	Hand grip strength	rs113230003	A	G	0.2596	0.002	0.0003	2.617E-11	334925	0.0044283	1489.7331	N/A
40	Hand grip strength	rs7755875	A	G	0.3193	0.002	0.0003	2.617E-11	334925	0.0050075	1685.5622	Excluded
41	Hand grip strength	rs12910459	T	C	0.4326	-0.002	0.0003	2.617E-11	334925	-0.005655	1883.3746	N/A
42	Hand grip strength	rs2126165	A	G	0.4889	-0.002	0.0003	2.617E-11	334925	-0.005757	1917.0914	N/A
43	Hand grip strength	rs41268905	A	G	0.1048	-0.003	0.0005	1.973E-09	334925	-0.001945	650.2641	rs41268899
44	Hand grip strength	rs56068671	T	G	0.0832	0.003	0.0005	1.973E-09	334925	0.0015816	530.56403	N/A
45	Hand grip strength	rs12599952	A	G	0.3217	0.002	0.0003	2.617E-11	334925	0.0050273	1692.2778	N/A
46	Hand grip strength	rs62253653	A	G	0.7036	-0.002	0.0003	2.617E-11	334925	-0.004805	1601.5197	N/A
47	Hand grip strength	rs4575361	A	T	0.6890	0.002	0.0003	2.617E-11	334925	0.0049368	1661.6474	N/A

48	Hand grip strength	rs879620	T	C	0.6152	-0.002	0.0003	2.617E-11	334925	-0.005454	1816.7665	N/A
49	Hand grip strength	rs1454687	C	G	0.4846	-0.002	0.0003	2.617E-11	334925	-0.005754	1916.2221	N/A
50	Hand grip strength	rs11121542	A	G	0.1220	-0.003	0.0004	6.382E-14	334925	-0.002776	927.2839	N/A
51	Hand grip strength	rs34916901	T	G	0.5116	0.002	0.0003	2.617E-11	334925	0.0057567	1939.2037	N/A
52	Hand grip strength	rs12691307	A	G	0.4398	0.002	0.0003	2.617E-11	334925	0.0056763	1911.9673	N/A
53	Hand grip strength	rs62004866	C	G	0.8865	0.003	0.0004	6.382E-14	334925	0.0026079	875.73182	N/A
54	Hand grip strength	rs35511257	C	G	0.0956	-0.003	0.0005	1.973E-09	334925	-0.001793	599.36722	N/A
55	Hand grip strength	rs2237149	A	C	0.4131	0.002	0.0003	2.617E-11	334925	0.0055858	1881.3167	N/A
56	Hand grip strength	rs34341	A	T	0.4242	0.002	0.0003	2.617E-11	334925	0.0056274	1895.4097	N/A

57	Hand grip strength	rs11030104	A	G	0.7964	-0.002	0.0003	2.617E-11	334925	-0.003736	1246.5209	Outlier
58	Hand grip strength	rs115131074	A	T	0.0481	-0.004	0.0007	1.102E-08	334925	-0.000904	302.55688	N/A
59	Hand grip strength	rs72977282	A	T	0.4132	-0.002	0.0003	2.617E-11	334925	-0.005586	1860.5487	N/A
60	Hand grip strength	rs73728611	A	G	0.8765	0.003	0.0004	6.382E-14	334925	0.0028057	942.32676	rs73728204
61	Hand grip strength	rs181617194	T	C	0.9588	-0.005	0.0008	4.105E-10	334925	-0.000853	285.51968	N/A
62	Hand grip strength	rs7955910	T	G	0.4825	-0.002	0.0003	2.617E-11	334925	-0.005753	1915.6951	N/A
63	Hand grip strength	rs1513475	T	C	0.6516	-0.002	0.0003	2.617E-11	334925	-0.00523	1742.6236	N/A
64	Hand grip strength	rs40067	A	G	0.1702	0.002	0.0004	5.733E-07	334925	0.0024404	819.34219	N/A
65	Hand grip strength	rs4776614	C	G	0.3268	0.002	0.0003	2.617E-11	334925	0.0050686	1706.2512	N/A

66	Hand grip strength	rs7249	T	C	0.3669	0.002	0.0003	2.617E-11	334925	0.0053516	1802.0232	N/A
67	Hand grip strength	rs1951716	T	C	0.6340	-0.002	0.0003	2.617E-11	334925	-0.005346	1781.0031	N/A
68	Hand grip strength	rs62442203	C	G	0.4039	0.002	0.0003	2.617E-11	334925	0.005547	1868.1797	N/A
69	Hand grip strength	rs58383713	A	C	0.1960	-0.002	0.0004	5.733E-07	334925	-0.002723	909.49928	N/A
70	Hand grip strength	rs11223444	A	G	0.4476	-0.002	0.0003	2.617E-11	334925	-0.005697	1897.0847	N/A
71	Hand grip strength	rs4677611	T	C	0.4877	0.002	0.0003	2.617E-11	334925	0.0057563	1939.0731	N/A
72	Hand grip strength	rs10807136	T	C	0.1197	-0.003	0.0004	6.382E-14	334925	-0.002731	912.22675	N/A
73	Hand grip strength	rs1627854	A	G	0.5280	0.002	0.0003	2.617E-11	334925	0.0057417	1934.1343	N/A
74	Hand grip strength	rs202941	T	C	0.6156	0.002	0.0003	2.617E-11	334925	0.0054519	1835.9723	N/A

75	Hand grip strength	rs12447992	A	C	0.8651	-0.002	0.0004	5.733E-07	334925	-0.002017	674.02277	N/A
76	Hand grip strength	rs76808502	C	G	0.0291	0.005	0.0009	2.767E-08	334925	0.0005424	181.77402	N/A
77	Hand grip strength	rs117108573	T	C	0.0816	-0.003	0.0005	1.973E-09	334925	-0.001554	519.63708	Excluded
78	Hand grip strength	rs11689199	A	G	0.5978	-0.002	0.0003	2.617E-11	334925	-0.005539	1845.0528	N/A
79	Hand grip strength	rs4755720	T	C	0.6084	0.002	0.0003	2.617E-11	334925	0.005489	1848.5544	N/A
80	Hand grip strength	rs1039716	T	C	0.7829	0.002	0.0003	2.617E-11	334925	0.0039159	1316.6794	N/A
81	Hand grip strength	rs7658243	A	C	0.5768	-0.002	0.0003	2.617E-11	334925	-0.005624	1873.0323	N/A
82	Hand grip strength	rs529200	A	G	0.4741	0.002	0.0003	2.617E-11	334925	0.0057443	1935.0178	N/A
83	Hand grip strength	rs61873510	T	G	0.3287	-0.002	0.0003	2.617E-11	334925	-0.005084	1694.0415	N/A

84	Hand grip strength	rs4858934	T	C	0.1147	0.002	0.0004	5.733E-07	334925	0.0017546	588.69149	N/A
85	Hand grip strength	rs3134986	T	C	0.2899	-0.002	0.0003	2.617E-11	334925	-0.004743	1580.9668	Excluded
86	Hand grip strength	rs66679256	T	C	0.4461	-0.002	0.0003	2.617E-11	334925	-0.005693	1895.8683	N/A
87	Hand grip strength	rs13132853	A	G	0.6352	-0.002	0.0003	2.617E-11	334925	-0.005339	1778.5369	N/A
88	Hand grip strength	rs207299	T	C	0.2738	0.002	0.0003	2.617E-11	334925	0.0045809	1541.323	N/A
89	Hand grip strength	rs61992671	A	G	0.5063	-0.002	0.0003	2.617E-11	334925	-0.005759	1917.7285	Excluded
90	Hand grip strength	rs1523766	A	G	0.4979	-0.002	0.0003	2.617E-11	334925	-0.00576	1917.9976	N/A
91	Hand grip strength	rs77012907	A	G	0.9098	0.003	0.0005	1.973E-09	334925	0.0017016	570.87961	N/A
92	Hand grip strength	rs7231880	T	G	0.7065	0.002	0.0003	2.617E-11	334925	0.0047773	1607.7182	N/A

93	Hand grip strength	rs1529883	C	G	0.3453	0.002	0.0003	2.617E-11	334925	0.0052084	1753.5443	N/A
94	Hand grip strength	rs3113767	T	C	0.8450	0.002	0.0004	5.733E-07	334925	0.0022632	759.70256	N/A
95	Hand grip strength	rs6904571	T	C	0.2588	0.002	0.0003	2.617E-11	334925	0.0044194	1486.7337	N/A
96	Hand grip strength	rs887013	A	T	0.6818	0.002	0.0003	2.617E-11	334925	0.0049983	1682.4543	N/A
97	Hand grip strength	rs9320823	T	C	0.3981	0.002	0.0003	2.617E-11	334925	0.0055205	1859.2193	N/A
98	Hand grip strength	rs9579775	A	C	0.8646	0.002	0.0004	5.733E-07	334925	0.0020228	678.86666	N/A
99	Hand grip strength	rs9877408	A	G	0.5984	0.002	0.0003	2.617E-11	334925	0.0055367	1864.6892	N/A
100	Hand grip strength	rs17024393	T	C	0.9742	0.005	0.0009	2.767E-08	334925	0.0004826	161.69855	N/A
101	Hand grip strength	rs2206929	T	C	0.7096	-0.002	0.0003	2.617E-11	334925	-0.004748	1582.5709	N/A

102	Hand grip strength	rs453325	A	C	0.7549	-0.002	0.0003	2.617E-11	334925	-0.004263	1421.6585	Excluded
103	Hand grip strength	rs5750673	A	G	0.2776	-0.002	0.0003	2.617E-11	334925	-0.00462	1540.2996	N/A
104	Hand grip strength	rs805343	T	C	0.4750	-0.002	0.0003	2.617E-11	334925	-0.005745	1913.2636	N/A
105	Hand grip strength	rs12680855	A	G	0.6826	-0.002	0.0003	2.617E-11	334925	-0.004992	1663.492	N/A
106	Hand grip strength	rs10758232	C	G	0.6653	0.002	0.0003	2.617E-11	334925	0.0051302	1727.0978	N/A
107	Hand grip strength	rs303760	T	C	0.3460	-0.002	0.0003	2.617E-11	334925	-0.005213	1737.0228	N/A
108	Hand grip strength	rs329120	T	C	0.4180	0.002	0.0003	2.617E-11	334925	0.0056049	1887.7749	N/A
109	Hand grip strength	rs3843540	T	C	0.8514	-0.002	0.0004	5.733E-07	334925	-0.002186	730.59257	N/A
110	Hand grip strength	rs17769552	A	G	0.2235	-0.002	0.0003	2.617E-11	334925	-0.003998	1333.8159	rs117368197

111	Hand grip strength	rs6905419	T	C	0.2814	-0.002	0.0003	2.617E-11	334925	-0.004659	1553.1115	N/A
112	Hand grip strength	rs4886869	A	G	0.3902	0.002	0.0003	2.617E-11	334925	0.005482	1846.1712	N/A
113	Hand grip strength	rs6424971	T	C	0.4829	0.002	0.0003	2.617E-11	334925	0.005753	1937.9715	N/A
114	Hand grip strength	rs73077175	A	G	0.3329	0.002	0.0003	2.617E-11	334925	0.0051165	1722.4333	N/A
115	Hand grip strength	rs901850	T	G	0.2560	0.002	0.0003	2.617E-11	334925	0.0043881	1476.1577	N/A
116	Hand grip strength	rs9641509	T	G	0.6135	0.002	0.0003	2.617E-11	334925	0.005463	1839.7255	N/A
117	Hand grip strength	rs4452060	A	C	0.4200	0.002	0.0003	2.617E-11	334925	0.0056123	1890.3032	N/A
118	Hand grip strength	rs2044469	A	G	0.6525	0.002	0.0003	2.617E-11	334925	0.005224	1758.8141	N/A
119	Hand grip strength	rs4952499	T	C	0.7403	-0.002	0.0003	2.617E-11	334925	-0.004429	1476.9650	N/A

120	Hand grip strength	rs12055409	A	G	0.3428	-0.002	0.0003	2.617E-11	334925	-0.005190	1729.4179	N/A
121	Hand grip strength	rs143373756	C	G	0.9812	-0.006	0.0011	4.91E-08	334925	-0.000348	116.41908	N/A
122	Hand grip strength	rs13017251	A	G	0.4940	0.002	0.0003	2.617E-11	334925	0.005758 9	1939.9730	N/A
123	Hand grip strength	rs74550407	A	T	0.0375	0.004	0.0007	1.102E-08	334925	0.000712 8	238.89376	N/A
124	Hand grip strength	rs830643	A	G	0.4138	0.002	0.0003	2.617E-11	334925	0.005588 6	1882.2622	N/A
125	Hand grip strength	rs1521624	A	C	0.4716	0.002	0.0003	2.617E-11	334925	0.005741 2	1933.9582	N/A
126	Hand grip strength	rs6428601	A	C	0.4549	0.002	0.0003	2.617E-11	334925	0.005712 9	1924.3774	N/A
127	Hand grip strength	rs1329733	A	G	0.5243	0.002	0.0003	2.617E-11	334925	0.005746 2	1935.6448	N/A
128	Hand grip strength	rs12162265	A	G	0.2384	-0.002	0.0003	2.617E-11	334925	-0.004183	1395.1799	N/A

129	Hand grip strength	rs9968060	T	C	0.6456	-0.002	0.0003	2.617E-11	334925	-0.005271	1756.2400	N/A

ALM: Appendicular lean mass; EA: Effect allele; EAF: Effect allele frequency; N/A: Not applicable; OA: Other allele; SE: Standard error; SNP: Single nucleotide polymorphism.