

**Supplementary Table S1.** SNPs associated with athlete status in the Turkish cohorts of endurance athletes, power athletes and controls.

Gene	Locus (CRCh38.p14)	Polymorphism	REF allele	ALT allele	Endurance vs sprint/power <i>p</i> value	Endurance vs controls <i>p</i> value	Sprint/power vs controls <i>p</i> value	Allelic frequencies in sprint/power athletes	Allelic frequencies in controls	Allelic frequencies in endurance athletes
<i>ACVR2A</i>	chr2_147926350	rs12620026	A	T	0.038	0.048	0.919	A (38%) T (62%)	A (62%) T (38%)	A (84%) T (16%)
<i>ANKRD20A1</i>	chr9_67901030	rs62542472	C	T	0.017	0.488	0.002	C (98%) T (2%)	C (55%) T (45%)	C (50%) T (50%)
<i>ANKRD36</i>	chr2_97164236	rs200092139	G	A	0.028	0.285	0.001	G (100%)	G (52%) A (48%)	G (55%) A (45%)
	chr2_97163407	rs62153885	T	G	0.026	0.450	0.139	T (98%) G (2%)	T (100%)	T (53%) G (47%)
	chr2_97164279	rs201424946	G	T	0.023	0.441	0.002	G (100%)	G (58%) T (42%)	G (53%) T (47%)
	chr2_97142481	rs79070930	A	G	0.023	0.498	0.105	A(100%)	A(98%) G(2%)	A (53%) G (47%)
	chr2_97142492	rs74969160	G	A	0.018	0.398	0.123	G (100%)	G (100%)	G (51%) A (49%)
<i>ANKRD36C</i>	chr2_95954026	rs77522461	G	A	0.018	0.371	0.001	G (100%)	G (53%) A (47%)	G (51%) A (49%)
	chr2_95941237	rs79451673	T	C	0.018	0.398	0.123	T (100%)	T (100%)	T (51%) C (49%)
<i>ARRDC4</i>	chr15_97965441	rs8031829	C	A	0.025	0.331	0.195	C (66%) A (34%)	C (65%) A (35%)	C (29%) A (71%)
<i>ATP1B2</i>	chr17_7654516	rs1642764	C	T	0.041	0.512	0.157	C (64%) T (36%)	C (60%) T (40%)	C (31%) T (69%)
<i>BZW1</i>	chr2_200815208	rs12475785	G	T	0.040	0.746	0.081	G (69%) T (31%)	G (57%) T (43%)	G (34%) T (66%)
<i>CNTN5</i>	chr11_99819697	rs7125822	T	G	0.018	0.496	0.002	T (100%)	T (57%) G (43%)	T (51%) G (49%)
<i>CNTNAP3</i>	chr9_39088492	rs1758499	T	A	0.018	0.432	0.002	T (100%)	T (55%) A (45%)	T (51%) A (49%)
<i>COL12A1</i>	chr6_75134129	rs1332778	T	C	0.037	0.286	0.296	T (62%) C (38%)	T (67%) C (33%)	T (29%) C (71%)
<i>FANK1</i>	chr10_125896805	rs5013165	C	T	0.028	0.335	0.002	C (100%)	C (55%) T (45%)	C (55%) T (45%)
	chr10_125896794	rs74162872	G	A	0.028	0.504	0.123	G (100%)	G (100%)	G (55%) A (45%)

<i>FBLN5</i>	chr14_91937316	rs2474028	T	C	0.033	0.746	0.069	T (70%) C (30%)	T (58%) C (42%)	T (34%) C (66%)
<i>FOXD4L4</i>	chr9_65737152	rs1212108435	C	A	0.028	0.504	0.123	C (100%)	C (100%)	C (55%) A (45%)
<i>FRG2C</i>	chr3_75665747	rs62247159	G	A	0.023	0.450	0.123	G (100%)	G (100%)	G (53%) A (47%)
<i>HNRNPM</i>	chr19_8445260	rs11881939	T	C	0.026	0.064	0.705	T (41%) C (59%)	T (75%) C (25%)	T (93%) C (7%)
<i>INPP4B</i>	chr4_142081862	rs1353603	T	C	0.042	0.344	0.268	T (75%) C (25%)	T (83%) C (17%)	T (39%) C (61%)
<i>KMT2C</i>	chr7_152230042	rs62481502	A	G	0.042	0.198	0.450	A (50%) G (50%)	A (100%)	A (100%)
<i>KRT83</i>	chr12_52314457	rs2852456	G	A	0.043	0.326	0.288	G (70%) A (30%)	G (77%) A (23%)	G (36%) A (64%)
<i>AGRN</i>	chr1_1067673	rs4074992	C	T	0.037	0.847	0.057	C (83%) T (17%)	C (70%) T (30%)	C (44%) T (56%)
<i>MAPK9</i>	chr5_180238572	rs4700729	A	G	0.039	0.710	0.089	A (85%) G (15%)	A (78%) G (22%)	A (46%) G (54%)
<i>MUC3A&amp; LOC10537543 1</i>	chr7_100957146	rs1378797034	G	A	0.028	0.285	0.001	G (100%)	G (52%) A (48%)	G (55%) A (45%)
	chr7_100957183	rs1420864111	C	A	0.028	0.285	0.001	C (100%)	C (53%) A (47%)	C (55%) A (45%)
	chr7_100959537	rs74318947	A	T	0.023	0.326	0.001	A (100%)	A (53%) T (47%)	A (53%) T (47%)
	chr7_100960407	rs73163759	T	C	0.023	0.326	0.001	T (100%)	T (53%) C (47%)	T (53%) C (47%)
	chr7_100957015	rs1194458035	T	C	0.018	0.372	0.001	T (100%)	T (52%) C (48%)	T (51%) C (49%)
	chr7_100959517	rs77153975	A	G	0.018	0.372	0.001	A (100%)	A (53%) G (47%)	A (51%) G (49%)
	chr7_100957158	rs1378797034	T	C	0.043	0.256	0.002	T (100%)	T (55%) C (45%)	T (58%) C (42%)
	chr7_100956464	rs1373570695	T	G	0.018	0.398	0.123	T (100%)	T(100%)	T (51%) G (49%)
	chr7_100956873	rs1024883687	A	G	0.018	0.398	0.123	A (100%)	A (100%)	A (51%) G (49%)
	chr7_100957083	rs1245494471	C	T	0.018	0.398	0.123	C (100%)	C (100%)	C (51%) T (49%)
	chr7_100959437	rs78538898	T	C	0.018	0.398	0.123	T (100%)	T (100%)	T (51%) C (49%)
	chr7_100959563	rs73714242	C	T	0.023	0.450	0.123	C (100%)	C (100%)	C (53%)

										T (47%)
	chr7_100957117	rs1223084315	A	G	0.043	0.621	0.123	A (100%)	A (100%)	A (58%) G (42%)
<i>MUC16</i>	chr19_8851096	rs2972591	A	G	0.030	0.390	0.181	A (79%) G (21%)	A (80%) G (20%)	A (39%) G (61%)
<i>MYO16</i>	chr13_109124983	rs157023	G	T	0.039	1.000	0.039	G (74%) T (26%)	G (55%) T (45%)	G (37%) T (63%)
<i>NOX5&amp; SPESP1</i>	chr15_68946106	rs3743093	G	A	0.028	1.000	0.028	G (72%) A (28%)	G (50%) A (50%)	G (34%) A (66%)
<i>NUP210</i>	chr3_13317933	rs354477	G	A	0.038	1.000	0.038	G (79%) A (21%)	G (60%) A (40%)	G (41%) A (59%)
	chr3_13354079	rs2280084	C	A	0.044	0.909	0.057	C (66%) A (34%)	C (50%) A (50%)	C (32%) A (68%)
<i>POTEJ</i>	chr2_130656603	rs62165276	C	T	0.031	0.382	0.003	C (96%) T (4%)	C (55%) T (45%)	C (53%) T (47%)
<i>PTPRD</i>	chr9_8341445	rs3736381	T	C	0.046	0.613	0.013	T (83%) C (17%)	T (55%) C (45%)	T (46%) C (54%)
<i>RBFOX1</i>	chr16_5239841	rs1279779604	G	T	0.023	0.282	0.002	G (100%)	G (55%) T (45%)	G (53%) T (47%)
<i>SIRT1</i>	chr10_67887701	rs41299232	C	G	0.047	0.798	0.083	C (96%) G (4%)	C (90%) G (10%)	C (56%) G (44%)
<i>SLC6A2</i>	chr16_55684972	rs2270935	T	C	0.043	0.473	0.185	T (33%) C (67%)	T (88%) C (12%)	T (75%) C (25%)
<i>SLC9B1</i>	chr4_102901335	rs3974500	G	A	0.023	0.450	0.123	G (100%)	G (100%)	G (53%) A (47%)
<i>TBC1D22B</i>	chr6_37314058	rs149705	T	C	0.043	0.761	0.021	T (82%) C (18%)	T (57%) C (43%)	T (44%) C (56%)
<i>TRPM2</i>	chr21_44406920	rs1785440	A	G	0.034	0.398	0.009	A (82%) G (18%)	A (50%) G (50%)	A (43%) G (57%)
<i>TSPAN3</i>	chr15_77071109	rs11072641	T	C	0.013	0.429	0.086	T (98%) C (2%)	T (92%) C (48%)	T (48%) C (52%)