

Functional DNA variations in Saudi female with low VO<sub>2max</sub>

**Supplementary Table 1.** List of the significant SNPs (P < 0.005) that are associated in female with low VO<sub>2</sub> max

S. No	CHR	SNP	BP	A1	F_A	F_U	A2	CHISQ	P	OR	SE	L95	U95
1	5	exm499426	156770133	A	0.6053	0.1071	G	16.75	4.26E-05	12.78	0.6953	3.27	49.92
2	12	exm980015	7188562	A	0.1053	0.5714	C	16.59	4.65E-05	0.08824	0.6521	0.02458	0.3168
3	17	exm-rs13695	38545193	A	0.05263	0.4643	G	15.56	8.01E-05	0.0641	0.8194	0.01287	0.3194
4	5	exm2265965	79521704	G	0.2105	0.6786	A	14.61	0.0001323	0.1263	0.5675	0.04153	0.3842
5	5	exm2256903	126993249	C	0.6842	0.2143	G	14.25	0.0001598	7.944	0.5779	2.56	24.66
6	21	exm1582123	47851636	A	0.02778	0.3929	G	13.78	0.0002056	0.04416	1.085	0.00526	0.3707
7	6	exm2266152	8869571	A	0.6316	0.1786	G	13.43	0.0002475	7.886	0.5971	2.447	25.42
8	7	exm2266487	145813854	A	0.1944	0.6429	G	13.3	0.0002648	0.1341	0.577	0.04328	0.4155
9	4	exm2265900	188170467	A	0.2632	0.7143	G	13.23	0.0002751	0.1429	0.5574	0.04791	0.426
10	3	exm325054	56667682	C	0.6053	0.1786	G	12.02	0.0005274	7.053	0.5947	2.199	22.62
11	7	exm657804	130007388	A	0.1111	0.5	C	11.78	0.0005977	0.125	0.6512	0.03488	0.448
12	11	exm881376	4790948	A	0.1111	0.5	C	11.78	0.0005977	0.125	0.6512	0.03488	0.448
13	2	exm2255224	242493511	G	0.6316	0.2143	A	11.32	0.0007657	6.286	0.5703	2.056	19.22
14	15	exm1191910	94945719	C	0.02941	0.3571	A	11.3	0.0007748	0.05455	1.089	0.006454	0.461
15	1	exm2264913	166268048	G	0.2632	0.6786	A	11.29	0.0007776	0.1692	0.5472	0.05788	0.4945
16	3	exm2265588	56533016	A	0.2632	0.6786	G	11.29	0.0007776	0.1692	0.5472	0.05788	0.4945
17	14	exm1087120	21993498	G	0.4118	0.03846	A	10.95	0.0009359	17.5	1.078	2.117	144.7
18	22	exm2273063	39493294	G	0.02632	0.3214	A	10.92	0.0009507	0.05706	1.091	0.006721	0.4844
19	19	exm1414958	6760974	G	0.1053	0.4643	A	10.87	0.0009793	0.1357	0.6504	0.03794	0.4857
20	6	exm-rs2736426	31745284	G	0.2105	0.6071	A	10.78	0.001028	0.1725	0.555	0.05814	0.5121
21	19	exm1512622	57646570	G	0.6579	0.25	A	10.74	0.001049	5.769	0.5544	1.946	17.1
22	19	exm1512672	57648277	T	0.6579	0.25	A	10.74	0.001049	5.769	0.5544	1.946	17.1
23	3	exm324889	56628031	A	0.5833	0.1786	G	10.7	0.001073	6.44	0.5981	1.994	20.8
24	6	exm2270384	110239704	A	0.5833	0.1786	G	10.7	0.001073	6.44	0.5981	1.994	20.8
25	2	exm2269094	81583557	G	0.5789	0.1786	A	10.69	0.001077	6.325	0.5928	1.979	20.21
26	11	exm881327	4790268	A	0.1316	0.5	C	10.67	0.001087	0.1515	0.6109	0.04576	0.5017
27	11	exm881377	4790951	G	0.1316	0.5	A	10.67	0.001087	0.1515	0.6109	0.04576	0.5017
28	11	exm2259690	108429200	A	0.1316	0.5	C	10.67	0.001087	0.1515	0.6109	0.04576	0.5017
29	17	exm2252984	38646147	A	0.1842	0.5714	G	10.65	0.001103	0.1694	0.5665	0.05579	0.5141
30	3	exm324920	56650054	G	0.1579	0.5357	A	10.61	0.001126	0.1625	0.5844	0.05169	0.5108
31	17	exm2272605	63428940	C	0.08333	0.4286	A	10.46	0.001219	0.1212	0.7138	0.02992	0.491
32	15	exm1153874	42643529	G	0.1053	0.4615	A	10.45	0.001226	0.1373	0.6589	0.03773	0.4993
33	4	exm387823	7780582	A	0.3684	0.03571	G	10.16	0.001434	15.75	1.072	1.925	128.9
34	6	exm2270308	35024695	G	0.4211	0.07143	A	9.935	0.001622	9.455	0.804	1.956	45.71
35	16	exm2272347	16959637	A	0.2895	0.6786	C	9.844	0.001704	0.193	0.5401	0.06696	0.5562

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36	16	exm2252795	86817240	A	0.2895	0.6786	C	9.844	0.001704	0.193	0.5401	0.06696	0.5562
37	7	exm657803	130007381	G	0.1667	0.5357	A	9.73	0.001813	0.1733	0.5862	0.05495	0.5468
38	3	exm336348	108754238	A	0.2895	0	T	9.726	0.001816	NA	NA	NA	NA
39	5	exm2261790	101019725	G	0.2895	0	A	9.726	0.001816	NA	NA	NA	NA
40	20	exm1543768	43547677	C	0.2895	0	A	9.726	0.001816	NA	NA	NA	NA
41	5	exm-rs11249661	179277874	A	0.1944	0.5714	G	9.722	0.00182	0.181	0.5685	0.05941	0.5516
42	1	exm-rs4650994	178515312	A	0.6389	0.25	G	9.565	0.001983	5.308	0.5576	1.78	15.83
43	1	exm2268809	198634625	G	0.2632	0.6429	A	9.515	0.002038	0.1984	0.5397	0.06889	0.5714
44	2	exm2261144	197404714	G	0.2632	0.6429	A	9.515	0.002038	0.1984	0.5397	0.06889	0.5714
45	14	exm1084123	20692188	G	0.2632	0.6429	A	9.515	0.002038	0.1984	0.5397	0.06889	0.5714
46	14	exm2251692	20692291	A	0.2632	0.6429	G	9.515	0.002038	0.1984	0.5397	0.06889	0.5714
47	14	exm1084138	20692453	A	0.2632	0.6429	C	9.515	0.002038	0.1984	0.5397	0.06889	0.5714
48	14	exm1084146	20692574	G	0.2632	0.6429	A	9.515	0.002038	0.1984	0.5397	0.06889	0.5714
49	14	exm1084150	20692643	G	0.2632	0.6429	A	9.515	0.002038	0.1984	0.5397	0.06889	0.5714
50	1	exm2268948	172668340	A	0.07895	0.3929	G	9.505	0.002049	0.1325	0.7153	0.0326	0.5382
51	5	exm474346	125802027	A	0.07895	0.3929	G	9.505	0.002049	0.1325	0.7153	0.0326	0.5382
52	22	exm1599671	30857373	A	0.07895	0.3929	C	9.505	0.002049	0.1325	0.7153	0.0326	0.5382
53	6	exm-rs9491696	127452639	G	0.5526	0.1786	C	9.448	0.002114	5.682	0.5915	1.782	18.12
54	14	exm2260329	49904851	A	0.6316	0.25	G	9.424	0.002142	5.143	0.551	1.747	15.14
55	4	exm2269729	23123307	A	0.2368	0.6071	G	9.259	0.002343	0.2008	0.5434	0.06922	0.5826
56	11	exm962900	119216504	A	0.2368	0.6071	G	9.259	0.002343	0.2008	0.5434	0.06922	0.5826
57	11	exm881341	4790471	A	0.02632	0.2857	G	9.211	0.002406	0.06757	1.096	0.00788	0.5794
58	11	exm901458	43876698	A	0.1053	0.4286	G	9.175	0.002453	0.1569	0.6521	0.0437	0.5631
59	1	exm31770	24394811	G	0.2105	0.5714	A	9.074	0.002593	0.2	0.5515	0.06785	0.5895
60	22	exm1593472	24224655	A	0.2105	0.5714	G	9.074	0.002593	0.2	0.5515	0.06785	0.5895
61	17	exm1336380	48603503	G	0.5	0.1429	A	9.057	0.002617	6	0.63	1.745	20.63
62	7	exm657815	130008285	G	0.1316	0.4643	A	8.997	0.002704	0.1748	0.6115	0.05274	0.5795
63	7	exm2258124	130022041	A	0.1316	0.4643	G	8.997	0.002704	0.1748	0.6115	0.05274	0.5795
64	15	exm1183089	82555242	G	0.1316	0.4643	A	8.997	0.002704	0.1748	0.6115	0.05274	0.5795
65	1	exm53060	44290530	G	0.1842	0.5357	A	8.963	0.002754	0.1957	0.5645	0.06472	0.5917
66	5	exm467585	94826655	A	0.1842	0.5357	C	8.963	0.002754	0.1957	0.5645	0.06472	0.5917
67	12	exm-rs10444502	118353871	C	0.1842	0.5357	A	8.963	0.002754	0.1957	0.5645	0.06472	0.5917
68	17	exm-rs11867934	16933404	A	0.1842	0.5357	G	8.963	0.002754	0.1957	0.5645	0.06472	0.5917
69	16	exm1250585	67964203	G	0.1579	0.5	A	8.933	0.0028	0.1875	0.5838	0.05972	0.5887
70	18	exm2253586	9478794	A	0.6579	0.2857	G	8.932	0.002802	4.808	0.5403	1.667	13.86
71	20	exm1529529	23424613	G	0.3421	0.7143	A	8.932	0.002802	0.208	0.5403	0.07214	0.5997
72	1	exm2265055	166169203	A	0.2353	0.625	G	8.929	0.002807	0.1846	0.5842	0.05875	0.5801

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73	2	exm2263899	85299783	C	0.5	0.1429	A	8.905	0.002843	6	0.6346	1.73	20.81
74	6	exm-rs1936797	127432657	G	0.4474	0.1071	A	8.836	0.002954	6.746	0.6927	1.736	26.22
75	12	exm2267381	92117210	G	0.4474	0.1071	A	8.836	0.002954	6.746	0.6927	1.736	26.22
76	3	exm336286	108690221	G	0.5789	0.2143	A	8.777	0.003051	5.042	0.5658	1.663	15.28
77	16	exm-rs837763	88853729	G	0.5789	0.2143	A	8.777	0.003051	5.042	0.5658	1.663	15.28
78	12	exm988079	18649057	A	0.1316	0.4615	G	8.616	0.003332	0.1768	0.6205	0.05238	0.5965
79	17	exm1347023	64216815	A	0.2778	0	G	8.611	0.003341	NA	NA	NA	NA
80	7	exm596878	299881	A	0.3158	0.6786	G	8.518	0.003516	0.2186	0.5344	0.07671	0.6231
81	14	exm2267675	86378529	A	0.3158	0.6786	G	8.518	0.003516	0.2186	0.5344	0.07671	0.6231
82	15	exm-rs7176508	70018990	G	0.3158	0.6786	A	8.518	0.003516	0.2186	0.5344	0.07671	0.6231
83	8	exm-rs13277113	11349186	A	0.05263	0.3214	G	8.386	0.00378	0.1173	0.8316	0.02298	0.5985
84	8	exm-rs2618476	11352541	G	0.05263	0.3214	A	8.386	0.00378	0.1173	0.8316	0.02298	0.5985
85	9	exm2264360	8875954	A	0.05263	0.3214	C	8.386	0.00378	0.1173	0.8316	0.02298	0.5985
86	12	exm997329	48142636	A	0.05263	0.3214	G	8.386	0.00378	0.1173	0.8316	0.02298	0.5985
87	8	exm681223	10466482	A	0.6111	0.25	G	8.288	0.003991	4.714	0.5544	1.59	13.97
88	2	exm2261106	16889372	A	0.5263	0.1786	C	8.285	0.003998	5.111	0.5908	1.606	16.27
89	6	exm2264210	117724462	C	0.6053	0.25	A	8.207	0.004174	4.6	0.5483	1.571	13.47
90	10	exm-rs11593576	81015896	A	0.6053	0.25	G	8.207	0.004174	4.6	0.5483	1.571	13.47
91	11	exm2267169	36146156	A	0.6053	0.25	G	8.207	0.004174	4.6	0.5483	1.571	13.47
92	12	exm2267405	131225471	A	0.6053	0.25	G	8.207	0.004174	4.6	0.5483	1.571	13.47
93	1	exm2268778	166652275	G	0.2895	0.6429	A	8.173	0.004252	0.2263	0.5324	0.07971	0.6427
94	14	exm1095171	31355096	G	0.2895	0.6429	C	8.173	0.004252	0.2263	0.5324	0.07971	0.6427
95	3	exm-rs2553955	107050997	G	0.3824	0.07143	A	8.094	0.004442	8.048	0.8143	1.631	39.7
96	8	exm2258998	88032231	C	0.6471	0.2857	A	8.028	0.004606	4.583	0.5512	1.556	13.5
97	12	exm-rs12424086	66364509	G	0.3158	0.03571	A	7.995	0.004691	12.46	1.076	1.511	102.8
98	22	exm1595697	26157068	G	0.4737	0.1429	C	7.94	0.004836	5.4	0.6303	1.57	18.57
99	7	exm2258290	27363392	G	0.2632	0.6071	A	7.891	0.004968	0.2311	0.5343	0.0811	0.6585
100	12	exm2267380	91277503	A	0.2632	0.6071	G	7.891	0.004968	0.2311	0.5343	0.0811	0.6585
101	14	exm-rs452036	23865885	A	0.2632	0.6071	G	7.891	0.004968	0.2311	0.5343	0.0811	0.6585
102	16	exm2272356	25753251	G	0.2632	0.6071	A	7.891	0.004968	0.2311	0.5343	0.0811	0.6585
103	20	exm-rs6051520	351944	C	0.2632	0.6071	A	7.891	0.004968	0.2311	0.5343	0.0811	0.6585
104	1	exm-rs10218696	172823534	A	0.07895	0.3571	G	7.888	0.004976	0.1543	0.7193	0.03767	0.6319
105	16	exm2252682	67973953	A	0.07895	0.3571	G	7.888	0.004976	0.1543	0.7193	0.03767	0.6319
106	19	exm1495520	51323232	G	0.07895	0.3571	A	7.888	0.004976	0.1543	0.7193	0.03767	0.6319

CHR: Chromosome; SNP: Illumina single nucleotide ID; BP: Base pair position at the respective chromosome as per GRCh37.p13; A1: Minor allele name; F\_A: Frequency of minor allele in cases; F\_U: Frequency of minor allele in controls; A2: Major allele name; CHISQ: Basic allelic test chi-square; P: p-value; OR: Odds ratio; SE: Standard error; L95: Lower bound of 95% confidence interval for odds ratio; U95: Upper bound of 95% confidence interval for odds ratio.