

Supplementary Table 1. SNPs ranked by their p-values in combined analysis of the Viennese and Bolzano populations.

Rank	Chromosome	Position	Reference	Change	Gene ID	Gene name	Effect	Old AA/new AA	Old codon/new codon	P-value
1	X	9121129	C	T	FBgn0030108	Gr8a	UPSTREAM	41 bases	na	1.38804E-58
2	X	9121094	T	C	FBgn0030108	Gr8a	UPSTREAM	76 bases	na	2.06137E-56
3	X	9120922	G	A	na	na	INTERGENIC	na	na	6.83878E-51
4	X	9121177	C	T	FBgn0030108	Gr8a	UTR 5 PRIME	na	na	1.20335E-34
5	X	9121338	A	G	FBgn0030108	Gr8a	NON SYNONYMOUS CODING	na	H/R	3.6258E-34
6	X	9121191	C	T	FBgn0030108	Gr8a	UTR 5 PRIME	na	na	9.81618E-34
7	X	9119071	T	G	na	na	INTERGENIC	na	na	5.41522E-29
8	X	9120204	A	C	FBgn0030107	CG15370	NON SYNONYMOUS CODING	na	H/P	1.09994E-23
9	X	9119160	T	A	na	na	INTERGENIC	na	na	4.45855E-23
10	X	9119116	G	A	na	na	INTERGENIC	na	na	4.9696E-23
11	X	9121584	G	C	FBgn0030108	Gr8a	NON SYNONYMOUS CODING	na	G/A	5.18733E-23
12	X	9119157	T	C	na	na	INTERGENIC	na	na	5.55757E-23
13	3L	1085454	T	C	FBgn0004870	bab1	INTRON	na	na	7.62941E-23
14	X	9118408	T	C	na	na	INTERGENIC	na	na	9.93985E-22
15	X	9120730	G	C	FBgn0030107	CG15370	DOWNSTREAM	129 bases	na	1.96712E-21
16	X	9117751	C	T	na	na	INTERGENIC	na	na	2.1077E-21
17	X	9120683	A	C	FBgn0030107	CG15370	DOWNSTREAM	82 bases	na	2.78451E-21
18	3L	1074985	G	C	FBgn0004870	bab1	INTRON	na	na	5.52768E-20
19	X	9123903	A	T	FBgn0030109	CG12121	INTRON	na	na	2.80031E-19
20	X	9117728	A	T	na	na	INTERGENIC	na	na	3.38262E-19
21	X	9116599	C	T	FBgn0086367	t	INTRON	na	na	3.95465E-19
22	3L	1074986	T	G	FBgn0004870	bab1	INTRON	na	na	1.79784E-18
23	X	9123893	G	A	FBgn0030109	CG12121	INTRON	na	na	3.09999E-16
24	X	9120247	G	C	FBgn0030107	CG15370	SYNONYMOUS CODING	na	R/R	4.26437E-16
25	X	9123892	A	C	FBgn0030109	CG12121	INTRON	na	na	4.77851E-16
26	3L	1102745	G	T	na	na	INTERGENIC	na	na	6.33641E-16
27	3L	1102996	C	T	na	na	INTERGENIC	na	na	1.41572E-15
28	3R	17064232	C	A	na	na	INTERGENIC	na	na	1.53166E-15
29	X	9127299	G	A	FBgn0052704	Ir8a	SYNONYMOUS CODING	na	G/G	2.1325E-15
30	X	9127794	C	G	FBgn0052704	Ir8a	SYNONYMOUS CODING	na	V/V	2.33085E-15
31	X	9125001	G	T	FBgn0030109	CG12121	NON SYNONYMOUS CODING	na	A/D	1.20985E-14
32	X	9117680	G	A	na	na	INTERGENIC	na	na	2.50336E-14
33	3L	1102726	A	G	na	na	INTERGENIC	na	na	3.72131E-14
34	X	9121477	G	A	FBgn0030108	Gr8a	SYNONYMOUS CODING	na	L/L	5.39319E-14
35	X	9113143	A	G	FBgn0086367	t	SYNONYMOUS CODING	na	S/S	5.4196E-14
36	X	9122048	A	C	FBgn0030108	Gr8a	NON SYNONYMOUS CODING	na	K/Q	8.96889E-14
37	3L	1103020	G	T	na	na	INTERGENIC	na	na	9.25067E-14
38	3L	1102833	T	C	na	na	INTERGENIC	na	na	1.37517E-13
39	3L	1103414	T	C	na	na	INTERGENIC	na	na	1.94274E-13
40	X	9117334	A	C	FBgn0086367	t	UPSTREAM	44 bases	na	2.97377E-13
41	3L	1074701	G	A	FBgn0004870	bab1	INTRON	na	na	5.8389E-13
42	X	9119334	T	A	FBgn0030107	CG15370	UPSTREAM	155 bases	na	6.5942E-13
43	X	9127962	G	A	FBgn0052704	Ir8a	SYNONYMOUS CODING	na	I/I	1.23671E-12
44	X	9119872	G	T	FBgn0030107	CG15370	SYNONYMOUS CODING	na	P/P	1.27094E-12
45	3L	1260112	G	A	FBgn0035199	CG9134	INTRON	na	na	1.2789E-12
46	3L	1090584	C	A	FBgn0004870	bab1	INTRON	na	na	1.4283E-12
47	X	9127383	C	T	FBgn0052704	Ir8a	SYNONYMOUS CODING	na	K/K	1.79946E-12
48	3L	21912511	A	C	FBgn0262737	mub	INTRON	na	na	1.80077E-12
49	X	9167319	T	C	FBgn0030122	CG16892	UPSTREAM	131 bases	na	1.83919E-12
50	X	9117516	T	G	na	na	INTERGENIC	na	na	1.98843E-12
51	3L	1085687	G	A	FBgn0004870	bab1	INTRON	na	na	2.46326E-12
52	3L	1102064	A	G	na	na	INTERGENIC	na	na	2.94692E-12
53	3L	1103402	A	T	na	na	INTERGENIC	na	na	3.18829E-12
54	3L	1102065	T	G	na	na	INTERGENIC	na	na	3.37687E-12
55	X	9242507	G	T	FBgn0085478	CG34449	INTRON	na	na	3.58302E-12
56	3R	17064002	A	G	na	na	INTERGENIC	na	na	3.67442E-12
57	X	9127926	C	T	FBgn0052704	Ir8a	SYNONYMOUS CODING	na	R/R	4.01758E-12
58	X	9113092	G	A	FBgn0086367	t	SYNONYMOUS CODING	na	L/L	5.29601E-12
59	X	9113122	G	A	FBgn0086367	t	SYNONYMOUS CODING	na	Y/Y	5.3943E-12
60	X	9119866	T	A	FBgn0030107	CG15370	SYNONYMOUS CODING	na	A/A	5.65005E-12
61	X	9118951	C	G	na	na	INTERGENIC	na	na	8.85986E-12
62	X	9225280	C	T	FBgn0085478	CG34449	DOWNSTREAM / INTRON / UTR 3 PRIME	92 bases / na / na	na	9.71941E-12
63	3L	1086181	G	A	FBgn0004870	bab1	INTRON	na	na	1.11435E-11
64	X	9166681	T	A	FBgn0030121	CG17446	INTRON	na	na	1.12959E-11
65	X	9119265	G	A	na	na	INTERGENIC	na	na	1.34807E-11
66	X	9118969	A	G	na	na	INTERGENIC	na	na	1.62516E-11
67	3L	1074818	C	T	FBgn0004870	bab1	INTRON	na	na	1.87887E-11
68	X	9125894	T	C	FBgn0030109	CG12121	SYNONYMOUS CODING	na	K/K	2.08285E-11
69	X	9099953	A	G	FBgn0030102	CG12119	DOWNSTREAM	200 bases	na	2.20228E-11
70	X	9119833	C	T	FBgn0030107	CG15370	SYNONYMOUS CODING	na	D/D	2.78556E-11
71	3L	1084059	T	C	FBgn0004870	bab1	INTRON	na	na	3.12982E-11
72	3L	672619	T	C	na	na	INTERGENIC	na	na	3.52791E-11
73	X	9113083	A	G	FBgn0086367	t	SYNONYMOUS CODING	na	A/A	3.95643E-11
74	3L	1102200	T	A	na	na	INTERGENIC	na	na	4.15024E-11
75	3L	993824	G	T	FBgn0035179	CG12038	UPSTREAM	164 bases	na	4.15224E-11
76	X	8832027	A	G	FBgn0261549	rdgA	INTRON	na	na	4.35254E-11
77	X	9121801	T	C	FBgn0030108	Gr8a	SYNONYMOUS CODING	na	H/H	5.61235E-11
78	X	9132456	C	T	FBgn0260789	mxc	SYNONYMOUS CODING	na	A/A	5.63008E-11
79	X	9125150	T	C	FBgn0030109	CG12121	SYNONYMOUS CODING	na	E/E	6.25503E-11
80	X	9113622	A	G	FBgn0086367	t	INTRON	na	na	6.41577E-11
81	3R	12742092	G	A	FBgn0262906	msa	INTRON	na	na	7.41026E-11
82	X	9168413	A	C	FBgn0030122	CG16892	SYNONYMOUS CODING	na	S/S	7.66433E-11
83	X	8882814	T	G	FBgn0030073	CG10962 / rdgA	INTRON	na	na	8.05017E-11
84	3L	1103291	T	A	na	na	INTERGENIC	na	na	8.66115E-11
85	X	9116537	A	G	FBgn0086367	t	INTRON	na	na	9.5972E-11
86	X	9167423	A	T	FBgn0030122	CG16892	UPSTREAM	27 bases	na	1.02723E-10
87	X	9113116	A	C	FBgn0086367	t	SYNONYMOUS CODING	na	V/V	1.03401E-10
88	3L	7183480	C	T	na	na	INTERGENIC	na	na	1.03464E-10
89	3L	1103300	T	G	na	na	INTERGENIC	na	na	1.14197E-10
90	X	9686968	T	A	FBgn0052698	CG32698	INTRON	na	na	1.25269E-10
91	X	9200486	C	T	na	na	INTERGENIC	na	na	1.25917E-10
92	2R	4383278	C	T	FBgn0050361	mtt	INTRON	na	na	1.3051E-10
93	3L	1972518	C	A	FBgn0035300	CG1139	SYNONYMOUS CODING	na	P/P	1.33466E-10
94	3L	4916850	A	T	FBgn0028699	Rh50	INTRON	na	na	1.34815E-10
95	3L	1104190	C	T	na	na	INTERGENIC	na	na	1.37099E-10
96	X	9125615	G	A	FBgn0030109	CG12121	INTRON	na	na	1.38642E-10
97	X	9965042	C	T	FBgn0030174	CG15312	UPSTREAM	143 bases	na	1.50068E-10
98	X	9125023	C	G	FBgn0030109	CG12121	NON SYNONYMOUS CODING	na	E/Q	1.53996E-10
99	X	9200484	A	C	na	na	INTERGENIC	na	na	1.63982E-10
100	3L	1102221	T	G	na	na	INTERGENIC	na	na	1.66088E-10