Supplementary Table 1: Polymorphisms in odorant receptor loci.

Locus	Location	Polymorphism[1]	Amino acid change	Frequency[2]
Or22a	Upstream Genomic	T-240A		0.342
Or22a	Upstream Genomic	T-154A		0.368
Or22a	Upstream Genomic	A-140G		0.368
Or22a	Upstream Genomic	T-111A		0.368
Or22a	Upstream Genomic	C-4T		0.105
Or22a	Exon 1	C22T		0.105
Or22a	Exon 1	A27T	H8Y	0.342
Or22a	Exon 1	C60G		0.342
Or22a	Exon 1	C61A		0.342
Or22a	Exon 1	G87C		0.289
Or22a	Exon 1	G88T	V30L	0.289
Or22a	Exon 1	A113T	E38V	0.053
Or22a	Intron 1	A140G		0.053
Or22a	Intron 1	G143C		0.053
Or22a	Intron 1	169 Del 2090 bp		0.395
Or22a	Exon 2	G212T	W51L	0.053
Or22a	Exon 2	G237A	M59I	0.053
Or22a	Exon 2	A261G	I67M	0.105
Or22a	Exon 2	A337G	M93V	0.079
Or22a	Exon 2	A358T	S100C	0.237
Or22a	Exon 2	C647A	A196E	0.211
Or22a	Exon 2	T663G	D201E	0.132
Or22a	Intron 2	C929G		0.105
Or22a	Exon 4	A1398G	T382A	0.105
Or22a	Exon 4 UTR	T1486A		0.053
Or22a	Downstream Genomic	C1614T		0.053
Or22b	Exon 1	G73A	I25L	0.105
Or22b	Exon 1	A81G		0.105
Or22b	Intron 1	A181G		0.316
Or22b	Intron 1	G183A		0.316
Or22b	Intron 1	A184C		0.316
Or22b	Intron 1	T185C		0.316
Or22b	Exon 2	T240C		0.053
Or22b	Exon 2	G282A		0.316

Or22b	Exon 2	A334G	N92D	0.316
Or22b	Exon 2	C591T		0.132
Or22b	Exon 2	T639C		0.316
Or22b	Exon 2	G641T	R194M	0.447
Or22b	Exon 2	C654A		0.132
Or22b	Exon 2	A662C	D201A	0.316
Or22b	Exon 2	G697T	V213L	0.263
Or22b	Exon 2	T723C		0.447
Or22b	Exon 2	A765G		0.447
Or22b	Intron 2	T834A		0.053
Or22b	Intron 2	G835T		0.053
Or22b	Intron 2	837 Ins 10bp		0.132
Or22b	Intron 2	G843C		0.132
Or22b	Intron 2	T860A		0.105
Or22b	Intron 2	907 Del 9bp		0.105
Or22b	Intron 2	935 Del 1bp		0.105
Or22b	Intron 2	C955A		0.053
Or22b	Intron 2	T960C		0.053
Or22b	Exon 3	C1022T		0.421
Or22b	Exon 3	G1046C		0.421
Or22b	Exon 3	T1103C		0.079
Or22b	Exon 3	C1154T		0.421
Or22b	Exon 3	C1260A	L354I	0.421
Or22b	Exon 3	C1295T		0.447
Or22b	Exon 4 UTR	A1480T		0.395
Or22b	Exon 4 UTR	C1509T		0.395
Or22b	Exon 4 UTR	A1515C		0.342
Or22b	Exon 4 UTR	1541 Ins 16bp		0.105
Or22b	Downstream genomic	G1559T		0.053
Or22b	Downstream genomic	T1561C		0.053
Or22b	Downstream genomic	A1577G		0.053
Or22b	Downstream genomic	T1638G		0.105
Or22b	Downstream genomic	C1742T		0.079
Or22b	Downstream genomic	G1953A		0.079
Or35a	Upstream genomic	G-455A		0.211
Or35a	Upstream genomic	A-387T		0.395
Or35a	Upstream genomic	A-333T		0.368
Or35a	Upstream genomic	C-279G		0.395

Or35a	Upstream genomic	-276 Del 12bp		0.395
Or35a	Upstream genomic	T-45C		0.211
Or35a	Exon 1	A113T	K38I	0.105
Or35a	Exon 1	G129A		0.132
Or35a	Exon 1	C139G	L47V	0.105
Or35a	Exon 1	C201T		0.132
Or35a	Exon 1	C372G		0.184
Or35a	Exon 1	G422C		0.132
Or35a	Exon 1	C534T		0.105
Or35a	Exon 1	G612T		0.132
Or35a	Exon 1	T619C		0.132
Or35a	Exon 1	A630T		0.132
Or35a	Exon 1	G660A		0.132
Or35a	Exon 1	C749T	T250I	0.105
Or35a	Intron 1	G900A		0.132
Or35a	Intron 1	A908T		0.132
Or35a	Intron 1	A920T		0.132
Or35a	Intron 1	A930T		0.132
Or35a	Intron 1	A937C		0.132
Or35a	Intron 1	C942T		0.132
Or35a	Intron 1	A968C		0.132
Or35a	Exon 2	T993C		0.158
Or35a	Exon 2	G1026A		0.132
Or35a	Intron 2	G1101T		0.132
Or35a	Intron 2	T1102C		0.132
Or35a	Intron 2	A1105C		0.132
Or35a	Intron 2	T1106A		0.132
Or35a	Intron 2	1116 Ins 3 bp		0.105
Or35a	Intron 2	1116 Ins 2 bp		0.132
Or35a	Intron 2	T1118A		0.132
Or35a	Intron 2	T1123C		0.132
Or35a	Intron 2	A1127G		0.132
Or35a	Exon 3	A1195G	N348S	0.053
Or35a	Intron 3	C1345T		0.053
Or35a	Downstream genomic	1449 Del 1bp		0.263
Or35a	Downstream genomic	1456 Del 1bp		0.053
Or35a	Downstream genomic	G1591C		0.289
Or35a	Downstream genomic	1620 Ins 2bp		0.053
Or35a	Downstream genomic	1624 Ins 2bp		0.289

Or35a	Downstream genomic	A1787G		0.053
Or35a	Downstream genomic	G1872A		0.263
Or35a	Downstream genomic	G1934A		0.053
Or35a	Downstream genomic	A1993T		0.079
Or35a	Downstream genomic	1993 Ins 1bp		0.079
Or35a	Downstream genomic	2035 Del 1bp		0.053
Or35a	Downstream genomic	C2048T		0.184
Or47a	Upstream genomic	T-497C		0.158
Or47a	Upstream genomic	T-485A		0.105
Or47a	Upstream genomic	G-469A		0.105
Or47a	Upstream genomic	G-438T		0.421
Or47a	Upstream genomic	A-425G		0.395
Or47a	Upstream genomic	A-399C		0.289
Or47a	Upstream genomic	A-377G		0.211
Or47a	Upstream genomic	G-362A		0.105
Or47a	Upstream genomic	-360 Del 15bp		0.184
Or47a	Upstream genomic	C-338G		0.342
Or47a	Upstream genomic	C-330G		0.342
Or47a	Upstream genomic	C-329T		0.342
Or47a	Upstream genomic	C-328A		0.342
Or47a	Upstream genomic	T-327C		0.342
Or47a	Upstream genomic	-325 Ins 2bp		0.211
Or47a	Upstream genomic	-325 Ins 2bp		0.132
Or47a	Upstream genomic	C-323A		0.342
Or47a	Upstream genomic	C-320A		0.237
Or47a	Upstream genomic	C-320G		0.105
Or47a	Upstream genomic	G-319C		0.342
Or47a	Upstream genomic	T-317A		0.342
Or47a	Upstream genomic	T-314C		0.342
Or47a	Upstream genomic	-314 Ins 1bp		0.342
Or47a	Upstream genomic	G-308T		0.342
Or47a	Upstream genomic	-307 Ins 2bp		0.342
Or47a	Upstream genomic	G-303T		0.342
Or47a	Upstream genomic	A-302C		0.342
Or47a	Upstream genomic	C-300A		0.132
Or47a	Upstream genomic	C-299T		0.342
Or47a	Upstream genomic	C-299A		0.105
Or47a	Upstream genomic	-298 Ins 2bp		0.342

Or47a	Upstream genomic	A-294T		0.342
Or47a	Upstream genomic	T-293C		0.342
Or47a	Upstream genomic	G-292C		0.342
Or47a	Upstream genomic	G-288C		0.342
Or47a	Upstream genomic	T-287A		0.342
Or47a	Upstream genomic	G-286C		0.342
Or47a	Upstream genomic	-286 Ins 11bp		0.237
Or47a	Upstream genomic	-286 Del 21bp		0.105
Or47a	Upstream genomic	T-276A		0.342
Or47a	Upstream genomic	A-265C		0.237
Or47a	Upstream genomic	G-261C		0.342
Or47a	Upstream genomic	G-253A		0.342
Or47a	Upstream genomic	-251 Ins 1bp		0.342
Or47a	Upstream genomic	-249 Ins 10 bp		0.237
Or47a	Upstream genomic	-249 Ins 4 bp		0.105
Or47a	Upstream genomic	A-248T		0.342
Or47a	Upstream genomic	A-246T		0.342
Or47a	Upstream genomic	T-245A		0.105
Or47a	Upstream genomic	A-244T		0.342
Or47a	Upstream genomic	G-242T		0.342
Or47a	Upstream genomic	G-239T		0.342
Or47a	Upstream genomic	T-237G		0.342
Or47a	Upstream genomic	-237 Del 104 bp		0.105
Or47a	Upstream genomic	T-235A		0.342
Or47a	Upstream genomic	- 235 Ins 9 bp		0.342
Or47a	Upstream genomic	T-233C		0.105
Or47a	Upstream genomic	-231 Ins 9 bp		0.342
Or47a	Upstream genomic	A-227T		0.342
Or47a	Upstream genomic	C-220A		0.237
Or47a	Upstream genomic	T-218C		0.105
Or47a	Upstream genomic	T-212A		0.263
Or47a	Upstream genomic	C-210A		0.368
Or47a	Upstream genomic	G-195A		0.105
Or47a	Upstream genomic	A-190C		0.237
Or47a	Upstream genomic	A-190T		0.105
Or47a	Upstream genomic	A-188G		0.237
Or47a	Upstream genomic	A-188C		0.105
Or47a	Upstream genomic	-183 Del 2 bp		0.342
Or47a	Upstream genomic	A-181T		0.105

Or47a	Upstream genomic	T-180G		0.342
Or47a	Upstream genomic	A-178C		0.342
Or47a	Upstream genomic	T-176A		0.342
Or47a	Upstream genomic	C-175T		0.342
Or47a	Upstream genomic	T-173A		0.368
Or47a	Upstream genomic	T-169A		0.368
Or47a	Upstream genomic	-162 Ins 1bp		0.105
Or47a	Upstream genomic	T-155A		0.105
Or47a	Upstream genomic	-154 Ins 2bp		0.105
Or47a	Upstream genomic	T-152C		0.368
Or47a	Upstream genomic	G-150A		0.368
Or47a	Upstream genomic	A-147C		0.237
Or47a	Upstream genomic	T-144C		0.368
Or47a	Upstream genomic	T-142G		0.105
Or47a	Upstream genomic	T-136G		0.263
Or47a	Upstream genomic	A-132G		0.263
Or47a	Upstream genomic	A-131G		0.105
Or47a	Upstream genomic	A-130G		0.105
Or47a	Upstream genomic	C-129G		0.105
Or47a	Upstream genomic	C-129A		0.263
Or47a	Upstream genomic	A-128T		0.105
Or47a	Upstream genomic	A-128G		0.263
Or47a	Upstream genomic	A-126T		0.105
Or47a	Upstream genomic	G-125T		0.105
Or47a	Upstream genomic	G-124A		0.105
Or47a	Upstream genomic	-94 Del 6 bp		0.237
Or47a	Upstream genomic	T-91C		0.368
Or47a	Upstream genomic	C-74G		0.237
Or47a	Upstream genomic	T-73C		0.237
Or47a	Upstream genomic	C-72A		0.105
Or47a	Upstream genomic	T-68G		0.237
Or47a	Upstream genomic	G-63A		0.237
Or47a	Upstream genomic	C-52T		0.105
Or47a	Exon 1	T39C		0.342
Or47a	Exon 1	C123A		0.053
Or47a	Exon 1	T168C		0.158
Or47a	Exon 1	G195T		0.158
Or47a	Exon 1	C198G		0.079
Or47a	Exon 1	T231C		0.342

Or47a	Exon 1	A240T		0.079
Or47a	Exon 1	T243G		0.342
Or47a	Exon 1	C276T		0.316
Or47a	Intron 1	T313C		0.316
Or47a	Intron 1	C320T		0.316
Or47a	Intron 1	C322G		0.368
Or47a	Intron 1	C323T		0.316
Or47a	Intron 1	T340C		0.211
Or47a	Exon 2	T440C		0.316
Or47a	Exon 3	G642A	V176I	0.158
Or47a	Exon 3	T653C		0.289
Or47a	Exon 3	C668T		0.158
Or47a	Exon 3	C831T		0.158
Or47a	Exon 3	C845T		0.158
Or47a	Exon 3	G881A		0.474
Or47a	Exon 3	C887T		0.447
Or47a	Exon 3	C902T		0.447
Or47a	Exon 3	C947T		0.132
Or47a	Exon 3	G974C		0.079
Or47a	Exon 3	A986T		0.316
Or47a	Exon 3	C998A		0.079
Or47a	Exon 3	T1181C		0.237
Or47a	Exon 3	T1193C		0.289
Or47a	Intron 3	C1234A		0.421
Or47a	Intron 3	C1236T		0.421
Or47a	Intron 3	1256 Del 10 bp		0.132
Or47a	Intron 3	C1274T		0.368
Or47a	Intron 3	C1285G		0.368
Or47a	Intron 3	C1285T		0.237
Or47a	Intron 3	C1286G		0.368
Or47a	Intron 3	T1292C		0.368
Or47a	Exon 4	T1300C		0.105
Or47a	Exon 4	G1309T		0.053
Or47a	Exon 4	C1321T		0.105
Or47a	Exon 4	A1324G		0.105
Or47a	Exon 4	A1336C		0.158
Or47a	Exon 4 UTR	1349 Del 2 bp		0.158
Or47a	Exon 4 UTR	C1357T		0.158
Or47a	Exon 4 UTR	G1502T		0.447

Or47a	Exon 4 UTR	T1514C		0.079
Or47a	Downstream genomic	T1541G		0.184
Or47a	Downstream genomic	C1582A		0.342
Or47a	Downstream genomic	1633 Del 2 bp		0.158
Or47a	Downstream genomic	1635 Ins 2bp		0.395
Or47a	Downstream genomic	1637 Ins 2bp		0.368
Or47a	Downstream genomic	C1670T		0.342
Or47a	Downstream genomic	T1706G		0.342
Or47a	Downstream genomic	G1731A		0.447
Or47a	Downstream genomic	T1736G		0.211
Or47a	Downstream genomic	C1864A		0.211
Or47a	Downstream genomic	G1877T		0.184
Or47a	Downstream genomic	A1925G		0.395
Or47a	Downstream genomic	A1944T		0.368
Or47a	Downstream genomic	G1982T		0.079
Or47a	Downstream genomic	A1984G		0.237

[1]The first base of the initiation codon corresponds to position 1. Insertion (Ins) position is listed by the position number of the base located before the insertion and the deletions (Del) listed by the position of the first deleted base. The size of the Ins or Del (base pairs, bp) is indicated after the position number. The most common allele is listed first.
[2]Allele frequencies of the rare allele.