

TAS2R1

(Gene ID: 50834, Transcript ID: NM_019599.2, Protein ID: NP_062545.1)

	G 332 A R 111 H rs41469	C 616 T R 206 W rs2234233	T 850 C L 284 L rs2234235	Allele freq.	Homoz.	Heteroz.	Carrier freq.
				n=96			n=48
H1 ^{1,2,3,4}	CGT R	CGG R	TTG L	0.76	0.58	0.35	0.94
H2 ^{1,2,3}	CGT R	TGG W	TTG L	0.20	0.04	0.31	0.35
H3 ³	CGT R	CGG R	CTG L	0.03	-	0.06	0.06
H4 ^{2,3}	CAT H	CGG R	TTG L	0.01	-	0.02	0.02
Minor allele freq.	0.01	0.20	0.03				
Heteroz.	0.02	0.31	0.06				
Hardy-Weinberg p-value	0.94	0.91	0.82				

TAS2R16

(Gene ID: 50833, Transcript ID: NM_016945.2, Protein ID: NP_058641.1)

	C 475 G H 159 D rs150899693	G 663 A A 221 A rs860170	G 665 A R 222 H rs1204014	G 846 A T 282 T rs1204014	Allele freq.	Homoz.	Heteroz.	Carrier freq.
					n=96			n=48
H1 ^{1,2}	CAT H	GCG A	CAC H	ACG T	0.59	0.35	0.48	0.83
H2 ^{1,2,3,4}	CAT H	GCG A	CGC R	ACG T	0.33	0.08	0.50	0.58
H3 ³	CAT H	GCG A	CAC H	ACA T	0.05	-	0.10	0.10
H4 ³	CAT H	GCA A	CAC H	ACG T	0.01	-	0.02	0.02
H5 ^{2,3}	GAT D	GCG A	CAC H	ACG T	0.01	-	0.02	0.02
Minor allele freq.	0.01	0.01	0.33	0.05				
Heteroz.	0.02	0.02	0.50	0.10				
Hardy-Weinberg p-value	0.94	0.94	0.39	0.70				

TAS2R3 (Gene ID: 50831, Transcript ID: NM_016943.2, Protein ID: NP_058639.1)

	C 807 T G 269 G rs2270009	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,4}	GGC G	0.57	0.38	0.40	0.77
H2 ^{1,2}	GGT G	0.43	0.23	0.40	0.63
Minor allele freq.	0.43				
Heteroz.	0.40				
Hardy-Weinberg p-value	0.19				

TAS2R4 (Gene ID: 50832, Transcript ID: NM_016944.1, Protein ID: NP_058640.1)

	T 20 C F 7 S rs2233998	A 180 G G 60 G rs144806722	G 286 C V 96 L rs2234001	G 512 A S 171 N rs2234002	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,3,4}	TTC F	GGA G	GTC V	AGT S	0.55	0.35	0.40	0.75
H2 ^{1,2}	TCC S	GGA G	CTC L	AAT N	0.44	0.25	0.38	0.63
H3 ³	TCC S	GGG G	CTC L	AAT N	0.01	-	0.02	0.02
Minor allele freq.	0.45	0.01	0.45	0.45				
Heteroz.	0.40	0.02	0.40	0.40				
Hardy-Weinberg p-value	0.17	0.94	0.17	0.17				

TAS2R5 (Gene ID: 54429, Transcript ID: NM_018980.2, Protein ID: NP_061853.1)

	G 77 T S 26 I rs2227264	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,4}	AGC S	0.57	0.38	0.40	0.77
H2 ^{1,2}	ATC I	0.43	0.23	0.40	0.63
Minor allele freq.	0.43				
Heteroz.	0.40				
Hardy-Weinberg p-value	0.19				

TAS2R38 (Gene ID: 5726, Transcript ID: NM_176817.4, Protein ID: NP_789787.4)

	G 145 C A 49 P rs713598	T 785 C V 262 A rs1726866	A 886 G I 296 V rs10246939	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2}	GCA A	GTT V	ATC I	0.57	0.35	0.44	0.79
H2 ^{1,2,4}	CCA P	GCT A	GTC V	0.41	0.21	0.40	0.60
H3 ²	GCA A	GCT A	GTC V	0.02	-	0.04	0.04
Minor allele freq.	0.41	0.43	0.43				
Heteroz.	0.40	0.44	0.44				
Hardy-Weinberg p-value	0.21	0.46	0.46				

TAS2R39 (Gene ID: 259285, Transcript ID: NM_176881.2, Protein ID: NP_795362.2)

	-	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,4}	-	1.00	1.00	-	1.00
Minor allele freq.	-				
Heteroz.	-				
Hardy-Weinberg p-value	-				

TAS2R40 (Gene ID: 259286, Transcript ID: NM_176882.1, Protein ID: NP_795363.1)

	C 560 A S 187 Y rs10260248	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,4}	TCT S	0.94	0.88	0.13	1.00
H2 ²	TAT Y	0.06	-	0.13	0.13
Minor allele freq.	0.06				
Heteroz.	0.13				
Hardy-Weinberg p-value	0.64				

TAS2R60 (Gene ID: 338398, Transcript ID: NM_0177437.1, Protein ID: NP_803186.1)

			G 130 A V 44 M rs61750008	TCT 386--388 δ VF 130--131 V rs78798389	T 930 C R 310 R rs4595035	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1	^{1,2,3,4}	RV1 ⁵	GTG V	TCT VF	CGC R	0.70	0.46	0.48	0.94
H2	^{1,2,3}	RV1 ⁵	GTG V	TCT VF	CGT R	0.29	0.04	0.50	0.54
H3	^{2,3}		ATG M	δ V	CGT R	0.01	-	0.02	0.02
Minor allele freq.			0.01	0.01	0.30				
Heteroz.			0.02	0.02	0.48				
Hardy-Weinberg p-value			0.94	0.94	0.34				

TAS2R41 (Gene ID: 259287, Transcript ID: NM_176883.2, Protein ID: NP_795364.2)

			G 189 A T 63 T rs1404635	C 380 T P 127 L rs10278721	C 643 A Q 215 K	G 885 A S 295 S rs145885431	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1	^{1,2,3}	RV1 ⁵	ACG T	CCA P	CAG Q	TCG S	0.69	0.42	0.54	0.96
H2	^{1,2,4}	RV2 ⁵	ACA T	CTA L	CAG Q	TCG S	0.29	0.04	0.50	0.54
H3	^{2,3}		ACG T	CCA P	AAG K	TCG S	0.01	-	0.02	0.02
H4	^{2,3}		ACA T	CTA L	CAG Q	TCA S	0.01	-	0.02	0.02
Minor allele freq.			0.30	0.30	0.01	0.01				
Heteroz.			0.52	0.52	0.02	0.02				
Hardy-Weinberg p-value			0.10	0.10	0.94	0.94				

TAS2R7

(Gene ID: 50837 , Transcript ID: NM_023919.2, Protein ID: NP_76408.1)

	T 254 C I 85 T rs77050900	G 538 T A 180 S rs76112700	A 787 T T 263 S rs11838055	G 912 A M 304 I rs619381	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,3,4}	ATT I	GCT A	ACG T	ATG M	0.85	0.73	0.25	0.98
H2 ^{1,2}	ATT I	GCT A	ACG T	ATA I	0.14	0.02	0.23	0.25
H3 ³	ACT T	TCT S	TCG S	ATG M	0.01	-	0.02	0.02
Minor allele freq.	0.01	0.01	0.01	0.14				
Heteroz.	0.02	0.02	0.02	0.23				
Hardy-Weinberg p-value	0.94	0.94	0.94	0.88				

TAS2R8

(Gene ID: 50836, Transcript ID: NM_023918.1, Protein ID: NP_076407.1)

	C 142 T L 48 F rs74611066	G 164 T R 55 I rs142540719	G 549 A L 183 L rs15488803	A 684 C E 228 D rs143804727	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,3,4}	CTT L	AGA R	TTA L	GAA E	0.55	0.25	0.60	0.85
H2 ^{1,2}	CTT L	AGA R	TTG L	GAA E	0.42	0.13	0.58	0.71
H3 ²	CTT L	AGA R	TTG L	GAC D	0.01	-	0.02	0.02
H4 ³	CTT L	ATA I	TTG L	GAA E	0.01	-	0.02	0.02
H5 ³	TTT F	AGA R	TTG L	GAA E	0.01	-	0.02	0.02
Minor allele freq.	0.01	0.01	0.45	0.01				
Heteroz.	0.02	0.02	0.60	0.02				
Hardy-Weinberg p-value	0.94	0.94	0.12	0.94				

TAS2R9

(Gene ID: 50835 , Transcript ID: NM_023917.2, Protein ID: NP_076406.1)

	A 535 G K 179 E rs149488505	T 560 C V 187 A rs3741845	G 630 A K 210 K	G 697 A A 233 T rs77609577	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,3}	AAA K	GTG V	AAG K	GCA A	0.52	0.29	0.46	0.75
H2 ^{1,2,3,4}	AAA K	GCG A	AAG K	GCA A	0.46	0.23	0.46	0.69
H3 ³	AAA K	GCG A	AAA K	GCA A	0.01	-	0.02	0.02
H4 ³	GAA E	GCG A	AAG K	ACA T	0.01	-	0.02	0.02
Minor allele freq.	0.01	0.48	0.01	0.01				
Heteroz.	0.02	0.46	0.02	0.02				
Hardy-Weinberg p-value	0.94	0.57	0.94	0.94				

TAS2R10

(Gene ID: 50839, Transcript ID: NM_023921.1, Protein ID: NP_076410.1)

	-	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2}	-	1.00	1.00	-	1.00
Minor allele freq.	-				
Heteroz.	-				
Hardy-Weinberg p-value	-				

TAS2R13 (Gene ID: 50838, Transcript ID: NM_023920.2, Protein ID: NP_76409.1)

	A 586 G I 196 V	A 776 G N 259 S rs1015443	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,3}	ATC I	AAC N	0.52	0.25	0.54	0.79
H2 ^{1,2,4}	ATC I	AGC S	0.47	0.21	0.52	0.73
H3 ³	GTC V	AGC S	0.01	-	0.02	0.02
Minor allele freq.	0.01	0.48				
Heteroz.	0.02	0.54				
Hardy-Weinberg p-value	0.94	0.55				

TAS2R14 (Gene ID: 50840, Transcript ID: NM_023922.1, Protein ID: NP_076411.1)

	A 114 T G 38 G rs7138535	G 375 A R 125 R rs3741843	C 601 T L 201 F rs35804287	C 609 T F 203 F rs117092928	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,4}	GGA G	AGA R	CTC L	TTC F	0.48	0.23	0.50	0.73
H2 ^{1,2,3}	GGT G	AGA R	CTC L	TTC F	0.34	0.10	0.48	0.58
H3 ^{2,3}	GGA G	AGG R	CTC L	TTC F	0.16	-	0.31	0.31
H4 ^{2,3}	GGA G	AGG R	CTC L	TTT F	0.01	-	0.02	0.02
H5 ³	GGA G	AGA R	TTC F	TTC F	0.01	-	0.02	0.02
Minor allele freq.	0.35	0.17	0.01	0.01				
Heteroz.	0.50	0.29	0.02	0.02				
Hardy-Weinberg p-value	0.52	0.73	0.94	0.94				

TAS2R50

(Gene ID: 259296, Transcript ID: NM_176890.2, Protein ID: NP_795371.2)

	Allele freq. n=96			Carrier freq. n=48			
	A 525 G S 175 S rs66679979	G 608 A C 203 Y rs1376251	G 777 A P 259 P rs10772397	Homoz.	Heteroz.		
H1 ^{1,2}	TCA S	TGT C	CCG P	0.31	0.06	0.50	0.56
H2 ^{1,2,4}	TCA S	TAT Y	CCA P	0.28	0.02	0.52	0.54
H3 ^{1,2}	TCA S	TGT C	CCA P	0.25	0.04	0.42	0.46
H4 ^{1,2}	TCG S	TGT C	CCG P	0.16	0.02	0.27	0.29
Minor allele freq.	0.16	0.28	0.47				
Heteroz.	0.27	0.52	0.56				
Hardy-Weinberg p-value	0.85	0.05	0.37				

TAS2R20

(Gene ID: 259295, Transcript ID: NM_176889.2, Protein ID: NP_795370.2)

	Allele freq. n=96												Carrier freq. n=48		
	T 38 C V 13 A rs141300962	A 156 G A 52 A rs11054143	A 235 G K 79 E rs7135018	C 261 T A 87 A rs11054142	G 421 A V 141 I rs79420812	C 429 A H 143 Q rs12226920	C 442 A H 148 N rs12226919	A 706 G I 236 V rs10845281	T 755 C F 252 S rs10845280	G 764 T R 255 L rs10845279	G 786 A M 262 I rs141300962	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2}	GTA V	GCA A	AAA K	GCC A	GTT V	CAC H	CAC H	ATA I	TTT F	CGA R	ATG M	0.40	0.10	0.58	0.69
H2 ^{1,2,3,4}	GTA V	GCA A	GAA E	GCC A	GTT V	CAC H	CAC H	ATA I	TTT F	CGA R	ATG M	0.32	0.08	0.48	0.56
H3 ^{1,2,3}	GTA V	GCG A	AAA K	GCT A	ATT I	CAA Q	AAC N	GTA V	TCT S	CTA L	ATG M	0.17	0.02	0.29	0.31
H4 ²	GTA V	GCG A	AAA K	GCT A	GTT V	CAA Q	AAC N	GTA V	TCT S	CTA L	ATG M	0.09	-	0.19	0.19
H5 ³	GCA A	GCG A	AAA K	GCT A	GTT V	CAA Q	AAC N	GTA V	TCT S	CTA L	ATG M	0.01	-	0.02	0.02
H6 ³	GTA V	GCA A	AAA K	GCC A	GTT V	CAC H	CAC H	ATA I	TTT F	CGA R	ATA I	0.01	-	0.02	0.02
Minor allele freq.	0.01	0.27	0.32	0.27	0.17	0.27	0.27	0.27	0.27	0.27	0.01				
Heteroz.	0.02	0.50	0.48	0.50	0.29	0.50	0.50	0.50	0.50	0.50	0.02				
Hardy-Weinberg p-value	0.94	0.07	0.51	0.07	0.73	0.07	0.07	0.07	0.07	0.07	0.94				

TAS2R19

(Gene ID: 259294 , Transcript ID: NM_176888.1, Protein ID: NP_795369.1)

			C 84 T A 28 A rs12313469	A 376 C K 126 Q rs12424373	T 418 C L 140 L rs1868769	C 895 T R 299 C rs10772420	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1	^{1,2,3}	RV2 ⁵	GCT A	AAG K	TTG L	TGC C	0.56	0.29	0.54	0.83
H2	^{1,2,4}	RV1 ⁵	GCC A	AAG K	TTG L	CGC R	0.26	0.02	0.48	0.50
H3	^{1,2}	RV1 ⁵	GCC A	AAG K	CTG L	CGC R	0.17	0.04	0.25	0.29
H4	³		GCC A	CAG Q	TTG L	CGC R	0.01	-	0.02	0.02
Minor allele freq.			0.44	0.01	0.17	0.44				
Heteroz.			0.54	0.02	0.25	0.54				
Hardy-Weinberg p-value			0.49	0.94	0.49	0.49				

TAS2R31

(Gene ID: 259290, Transcript ID: NM_176885.2, Protein ID: NP_795366.2)

			C 103 T R 35 W rs10845295	T 423 C A 141 A rs12370363	T 484 G/A L 162 V/M rs10743938	C 649 G Q 217 E rs10845294	C 680 T A 227 V rs10845293	G 718 A V 240 I rs10772423	A 744 G S 248 S rs116737741	C 827 G P 276 R rs12318612	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1	^{1,2,4,6}		CGG R	GCT A	ATG M	CAA Q	GCT A	GTT V	TCA S	CCA P	0.25	0.02	0.46	0.48
H2	^{1,2,3,6}		TGG W	GCC A	ATG M	CAA Q	GTT V	ATT I	TCA S	CCA P	0.32	0.08	0.48	0.56
H3	^{1,2,3,6}		TGG W	GCT A	ATG M	GAA E	GTT V	ATT I	TCA S	CGA R	0.24	0.04	0.40	0.44
H4	^{1,2,6}		CGG R	GCT A	TTG L	CAA Q	GCT A	GTT V	TCG S	CCA P	0.16	0.02	0.27	0.29
H5	^{2,6}		CGG R	GCT A	TTG L	CAA Q	GCT A	GTT V	TCA S	CCA P	0.02	-	0.04	0.04
H8	³		CGG R	GCT A	GTG V	CAA Q	GCT A	GTT V	TCA S	CCA P	0.01	-	0.02	0.02
Minor allele freq.			0.44	0.32	0.18	0.24	0.44	0.44	0.16	0.24				
Heteroz.			0.50	0.48	0.27	0.40	0.50	0.50	0.27	0.40				
Hardy-Weinberg p-value			0.91	0.51	0.64	0.55	0.91	0.91	0.85	0.55				

TAS2R46 (Gene ID: 259292, Transcript ID: NM_176887.2, Protein ID: NP_795368.2)

	G 534 A T 178 T rs73260771	T 682 A L 228 M rs2708380	G 749 A W 250 X rs2708381	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1 ^{1,2,4,6}	ACG T	TTG L	TGG W	0.44	0.19	0.50	0.69
H2 ^{1,2,6}	ACG T	ATG M	TAG X	0.32	0.08	0.48	0.56
H3 ^{1,2,6}	ACA T	ATG M	TGG W	0.24	0.04	0.40	0.44
Minor allele freq.	0.24	0.44	0.32				
Heteroz.	0.40	0.50	0.48				
Hardy-Weinberg p-value	0.55	0.91	0.51				

TAS2R43 (Gene ID: 259289, Transcript ID: NM_176884.2, Protein ID: NP_795365.2)

	G 104 C W 35 S rs68157013	G 391 A V 131 M rs186718859	A 635 G H 212 R rs71443637	C 663 G T 221 T rs35720106	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
Δ ^{1,2,6}	Δ Δ	Δ Δ	Δ Δ	Δ Δ	0.56	0.31	0.50	0.81
H1 ^{1,2,4,6}	TCG S	GTG V	CGT R	ACG T	0.26	0.02	0.48	0.50
H2 ^{1,2,6}	TGG W	GTG V	CAT H	ACC T	0.17	0.02	0.29	0.31
H4 ^{2,6}	TCG S	ATG M	CGT R	ACG T	0.01	-	0.02	0.02
Minor allele freq.	0.17	0.01	0.17	0.17				
Heteroz.	0.15	-	0.15	0.15				
Hardy-Weinberg p-value	0.06	0.51	0.06	0.06				

TAS2R45

(Gene ID: 259291, Transcript ID: NM_176886.2, Protein ID: NP_795367.2)

		A 227 G Y 76 C rs11535673	G 394 A V 132 M rs11526470	G 630 C Q 210 H rs28581524	T 703 C F 235 L rs3759244	C 712 T R 238 C rs3759245	G 893 C R 298 T rs11537119	A 900 G X 300 W rs3759247	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
Δ	^{1,2,6}	Δ	Δ	Δ	Δ	Δ	Δ	Δ	0.17	0.02	0.29	0.31
H1	^{1,2,6} RV2 ⁵	TAT Y	GTG V	CAG Q	TTC F	CGT R	AGG R	TGA X	0.36	0.15	0.44	0.58
H2	^{1,2,6} RV1 ⁵	TGT C	ATG M	CAC H	CTC L	TGT C	ACG T	TGG W	0.25	0.02	0.46	0.48
H3	^{1,2,6} RV3 ⁵	TAT Y	GTG V	CAG Q	TTC F	TGT C	AGG R	TGA X	0.22	0.04	0.35	0.40
Minor allele freq.		0.25	0.25	0.25	0.25	0.36	0.25	0.25				
Heteroz.		0.31	0.31	0.31	0.31	0.31	0.31	0.31				
Hardy-Weinberg p-value		0.23	0.23	0.23	0.23	0.65	0.23	0.23				

TAS2R30

(Gene ID: 259293, Transcript ID: NM_001097643.1, Protein ID: NP_001091112.1)

		T 54 G V 18 V rs2600355	A 521 G H 174 R rs200095034	T 756 G F 252 L rs2599404	G 943 A A 315 T rs199946401	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48
H1	^{1,2,4,6}	GTG V	CAT H	TTG L	GCA A	0.54	0.29	0.50	0.79
H2	^{1,2,6}	GTT V	CAT H	TTT F	GCA A	0.44	0.19	0.50	0.69
H4	^{2,6}	GTG V	CGT R	TTG L	GCA A	0.01	-	0.02	0.02
H6	³	GTG V	CAT H	TTG L	ACA T	0.01	-	0.02	0.02
Minor allele freq.		0.44	0.01	0.44	0.01				
Heteroz.		0.50	0.02	0.50	0.02				
Hardy-Weinberg p-value		0.91	0.94	0.91	0.94				

TAS2R42

(Gene ID: 353164 , Transcript ID: NM_181429.1, Protein ID: NP_852094.1)

			A 524 T Y 175 F rs35969491	A 561 G L 187 L rs1650019	T 587 C F 196 S rs5020531	G 763 T G 255 W rs1669413	A 794 G Y 265 C rs1451772	G 875 A R 292 Q rs1669412	T 930 C N 310 N rs1669411	G 931 C A 311 P rs1650017	Allele freq. n=96	Homoz.	Heteroz.	Carrier freq. n=48	
H1	^{1,2,3}	RV1	⁵	TTT	TTG	TCC	TGG	TAC	CGA	AAC	CCT	0.52	0.25	0.54	0.79
				F	L	S	W	Y	R	N	P				
H2	^{1,2}	RV4	⁵	TAT	TTG	TTC	TGG	TGC	CAA	AAC	CCT	0.30	0.08	0.44	0.52
				Y	L	F	W	C	Q	N	P				
H3	^{1,2,3}	RV2	⁵	TAT	TTA	TTC	GGG	TAC	CGA	AAT	GCT	0.18	0.02	0.31	0.33
				Y	L	F	G	Y	R	N	A				
Minor allele freq.				0.48	0.18	0.48	0.18	0.30	0.30	0.18	0.18				
Heteroz.				0.54	0.31	0.54	0.31	0.44	0.44	0.31	0.31				
Hardy-Weinberg p-value				0.55	0.62	0.55	0.62	0.79	0.79	0.62	0.62				

¹ direct ascertainment from homozygous individuals

² haplotype reconstruction using Bayesian approach (Stephens et al., 2001; Stephens and Donnelly, 2003)

³ subcloning and sequencing analysis

⁴ previously published (Meyerhof et al., 2010)

⁵ previously published (Thalmann et al., 2013)

⁶ previously published (Roudnitzky et al., 2011)