

Table 3-suppl Association of PYY and Y2 receptor gene SNPs with severe obesity under logistic regression analysis (online appendix)

Gene	Genotypes*Group					Logistic regression in additive, dominant, recessive and full models												Total N
	SNP No.	group	Genotype (N of subjects)			Additive (OR/P value)			Dominant (OR/P value)			Recessive (OR/P value)			Full (P value)			
			aa	ab	bb	All <sup>a</sup>	M	F	All <sup>a</sup>	M	F	All <sup>a</sup>	M	F	All <sup>a</sup>	M	F	
PYY	1/2*	Ncase	97	185	80	1.11	1.37	0.92	1.21	3.59	0.50	1.08	0.81	1.50	—	—	—	489
		Ncntl	35	61	34	.51	.16	.68	.44	<b>.002</b>	.08	.74	.52	.26	.75	<b>.001</b>	<b>.04</b>	
	3	Ncase	97	184	80	1.15	1.36	0.98	1.25	3.63	0.52	1.16	0.80	1.83	—	—	—	
		Ncntl	33	60	31	.36	.16	.94	.38	<b>.001</b>	.10	.53	.50	.12	.64	<b>.001</b>	<b>.02</b>	
Y2R	1	Ncase	171	157	23	0.89	0.80	0.98	1.23	1.58	0.99	0.79	0.62	0.97	—	—	—	476
		Ncntl	67	48	10	.50	.38	.92	.61	.54 <sup>b</sup>	1.0 <sup>b</sup>	.28	.14	.90	.39	.16 <sup>b</sup>	1.0 <sup>b</sup>	
	2	Ncase	145	167	40	0.80	0.76	0.83	0.80	1.10	0.56	0.74	0.59	0.89	—	—	—	
		Ncntl	62	51	12	.17	.26	.42	.53	.84	.30	.15	.10	.68	.36	.18	.54	
	3	Ncase	81	187	81	0.81	0.72	0.91	0.94	0.90	0.98	0.62	0.45	0.81	—	—	—	
		Ncntl	40	54	30	.16	.13	.65	.80	.76	.96	<b>.05</b>	<b>.03</b>	.50	.13	.07	.79	
	4	Ncase	145	166	37	0.83	0.79	0.87	0.86	1.21	0.60	0.77	0.61	0.93	—	—	—	
		Ncntl	61	52	12	.27	.34	.54	.67	.71	.35	.23	.13	.81	.49	.20	.62	
	5	Ncase	140	170	36	0.84	0.80	0.87	1.18	1.12	1.24	0.68	0.63	0.72	—	—	—	
		Ncntl	59	47	15	.28	.36	.54	.62	.81	.64	.08	.16	.27	.12	.29	.38	
	6	Ncase	80	193	87	0.77	0.75	0.80	0.90	0.91	0.90	0.57	0.48	0.64	—	—	—	
		Ncntl	42	54	31	.08	.17	.28	.68	.79	.76	<b>.02</b>	<b>.04</b>	.16	.05	.11	.39	
	7	Ncase	80	192	89	0.77	0.75	0.79	0.89	0.90	0.88	0.58	0.50	0.64	—	—	—	
		Ncntl	41	54	31	.09	.19	.26	.63	.76	.71	<b>.02</b>	.06	.16	.07	.14	.39	
	8	Ncase	89	188	77	0.81	0.65	1.01	0.91	0.76	1.09	0.66	0.44	0.95	—	—	—	
		Ncntl	42	54	26	.18	.05	.96	.73	.46	.81	.08	<b>.02</b>	.89	.20	.05	.95	
	9	Ncase	342	10	0	1.24	1.63	1.05	—	—	—	1.24	1.63	1.05	—	—	—	
		Ncntl	118	4	0	.73	.64 <sup>b</sup>	1.0 <sup>b</sup>	—	—	—	.73	.64 <sup>b</sup>	1.0 <sup>b</sup>	.94	.64 <sup>b</sup>	1.0 <sup>b</sup>	
	10	Ncase	118	178	63	0.78	0.59	1.00	0.94	0.86	1.01	0.61	0.34	0.98	—	—	—	
		Ncntl	57	48	22	.10	<b>.02</b>	.98	.81	.71	.98	<b>.02</b>	<b>.001</b>	.96	.06	<b>.002</b>	.10	
	11	Ncase	118	178	63	0.78	0.59	1.00	0.94	0.86	1.01	0.61	0.34	0.98	—	—	—	
		Ncntl	57	48	22	.10	<b>.02</b>	.98	.81	.71	.98	<b>.02</b>	<b>.001</b>	.96	.06	<b>.002</b>	.10	

Ncase refers to subject number of severe obese group; Ncntl refers to subject number of non-obese control group. OR stands for odds ratio.

P values < 0.05 are bold and italic.

a: P values adjusted for sex. b: Exact P values assessed by Fisher's test due to rare alleles.

\* Information derived from genotyping of SNP2 assumed to be identical to SNP1.

