

Supplementary Table 1

Cases								
SNPs	Genotype /Allele	Real #	Frequency	Apply Hardy-Weinberg		Chi-square value	n	<i>p</i>
				Individuals	Frequency			
rs 933151	AG	88	60.68965517	84.972414	0.5860166	1.94	145	0.16367
	AG	46	31.72413793	52.055172	0.3590012			
	GG	11	7.586206897	7.9972414	0.0549822			
	A	222	76.55172414			290		
	G	68	23.44827586					

Chi square goodness-of-fit tests with continuity correction, X_c^2

Conditional chi square goodness-of-fit test, X^{*2}

Elston-Forthofer average test, A

c =0.5

rs 933151	E11	84.97241		E11*	84.88235294
	E12	52.05517		E12*	52.23529412
	E22	7.972414		E22*	7.882352941
	$X_{0.5}^2$	208.32		X^{*2}	216.9963579
		A	212.6582		

Controls								
SNPs	Genotype /Allele	Real #	Frequency	Apply Hardy-Weinberg		Chi-square value	n	<i>p</i>
				Individuals	Frequency			
rs 933151	AG	89	60.9589041	92.9606165	0.63671655	4.133	146	0.0420547
	AG	55	37.6712329	47.0787671	0.32245731			
	GG	2	1.36986301	5.96061644	0.04082614			
	A	233	79.7945205			292		
	G	59	20.2054795					

Chi square goodness-of-fit tests with continuity correction, X_c^2

Conditional chi square goodness-of-fit test, X^{*2}

Elston-Forthofer average test, A

c =0.5

E11	92.96061644		E11*	92.87972509	
E12	47.07876712		E12*	47.24054983	
E22	5.960616438		E22*	5.879725086	
$X_{0.5}^2$	437.613521		X^{*2}	453.8468462	
	A	445.73018			