

Table S1: The distribution of haplotype association between the GWAS line and suggestive line (1×10^{-8} - 1×10^{-4}) on chromosome 2 based on opioid users' patients compared to controls from the UAE population.

Blocks	Haplotype Frequency	Case, Control Frequencies	Chi Square	P value
Block 1				
TCTGAC	0.569	0.472, 0.644	26.856	2.19×10^{-7}
CTAAGT	0.299	0.392, 0.225	29.53	5.51×10^{-8}
TTAGAT	0.065	0.053, 0.075	1.843	0.1746
TTTGAT	0.042	0.053, 0.034	2.03	0.1542
Block 2				
GGCCGTACCC	0.543	0.455, 0.614	22.724	1.87×10^{-6}
TATTACCTTT	0.309	0.395, 0.243	24.114	9.08×10^{-7}
GATCGTACCC	0.043	0.034, 0.050	1.349	0.2454
GATTACCTTT	0.022	0.038, 0.010	8.257	0.0041
GACCGCACCC	0.02	0.021, 0.020	0.006	0.9408
GATCACCTTT	0.018	0.013, 0.022	1.064	0.3024
Block 3				
GA	0.833	0.764, 0.887	24.434	7.69×10^{-7}
AG	0.15	0.204, 0.109	15.672	7.53×10^{-5}
GG	0.017	0.033, 0.004	11.254	8.00×10^{-4}
Block 4				
AT	0.642	0.711, 0.587	14.934	1.00×10^{-4}
TG	0.338	0.259, 0.401	20.172	7.08×10^{-6}
AG	0.02	0.030, 0.012	3.789	0.0516

Block 5				
GT	0.654	0.724, 0.599	15.329	9.03 X 10⁻⁵
AG	0.346	0.276, 0.401	15.329	9.03 X 10⁻⁵
Block 6				
AC	0.878	0.937, 0.832	23.055	1.57 X 10⁻⁶
CT	0.1	0.050, 0.138	19.283	1.13 X 10⁻⁵
AT	0.022	0.013, 0.030	3.004	0.083