

Supplementary Table 3. The allele and genotype frequencies of the studied SNPs in the breast cancer and control groups with BMI \geq 30.

Chr	SNP	Gene	Minor allele	Major allele	Minor allele frequency	Number of the studied chromosomes	Genotype distribution*	H _o	H _e	P _{HWE}
Breast cancer patients (n=119)										
1	rs17496332	<i>PRMT6</i>	G	A	0.346	234	14/53/50	0.45	0.45	1.000
2	rs780093	<i>GCKR</i>	T	C	0.372	234	11/65/41	0.56	0.47	0.051
2	rs10454142	<i>PPP1R21</i>	C	T	0.397	234	15/63/39	0.54	0.48	0.246
7	rs3779195	<i>BAIAP2L1</i>	A	T	0.174	224	2/35/75	0.31	0.29	0.518
8	rs440837	<i>ZBTB10</i>	G	A	0.195	236	4/38/76	0.32	0.31	1.000
10	rs7910927	<i>JMJD1C</i>	T	G	0.483	236	26/62/30	0.53	0.50	0.712
12	rs4149056	<i>SLCO1B1</i>	C	T	0.216	236	5/41/72	0.35	0.34	1.000
15	rs8023580	<i>NR2F2</i>	C	T	0.263	236	5/52/61	0.44	0.39	0.162
17	rs12150660	<i>SHBG</i>	T	G	0.263	236	9/44/65	0.37	0.39	0.641
Control group (n=253)										
1	rs17496332	<i>PRMT6</i>	G	A	0.381	480	36/111/93	0.46	0.47	0.785
2	rs780093	<i>GCKR</i>	T	C	0.407	482	43/110/88	0.46	0.48	0.424
2	rs10454142	<i>PPP1R21</i>	C	T	0.302	470	19/104/112	0.44	0.42	0.536
7	rs3779195	<i>BAIAP2L1</i>	A	T	0.155	472	9/55/172	0.23	0.26	0.129
8	rs440837	<i>ZBTB10</i>	G	A	0.234	474	11/89/137	0.38	0.36	0.587
10	rs7910927	<i>JMJD1C</i>	T	G	0.473	482	47/134/60	0.56	0.50	0.093
12	rs4149056	<i>SLCO1B1</i>	C	T	0.221	452	7/86/133	0.38	0.34	0.174
15	rs8023580	<i>NR2F2</i>	C	T	0.266	474	19/88/130	0.37	0.39	0.505
17	rs12150660	<i>SHBG</i>	T	G	0.244	488	16/87/141	0.36	0.37	0.604

Note: * minor allele homozygotes / heterozygotes / major allele homozygotes