

Supplementary table S1. The allele and genotype frequencies of the studied SNPs in the HTN and control groups of male.

Gene (SNP, major/minor alleles)	Minor allele frequency, %	Genotype distribution*	H <sub>o</sub>	H <sub>e</sub>	P <sub>HWE</sub>
HTN patients (n=564)					
<i>AC026703.1</i> (rs1173771,G/A)	41.12	88/259/182	0.490	0.484	0.858
<i>HFE</i> (rs1799945,C/G)	20.86	32/165/352	0.301	0.330	0.039
<i>BAG6</i> (rs805303,G/A)	33.30	66/229/247	0.423	0.444	0.248
<i>PLCE1</i> (rs932764,A/G)	50.94	130/280/120	0.528	0.500	0.224
<i>OBFC1</i> (rs4387287,C/A)	16.80	19/135/361	0.262	0.280	0.157
<i>ARHGAP42</i> (rs633185,C/G)	26.91	44/208/298	0.378	0.393	0.386
<i>CERS5</i> (rs7302981,G/A)	38.02	72/256/198	0.487	0.471	0.517
<i>ATP2B1</i> (rs2681472,A/G)	13.98	15/119/399	0.223	0.241	0.104
<i>TBX2</i> (rs8068318,T/C)	27.11	45/193/284	0.370	0.395	0.150
<i>RGL3</i> (rs167479,T/G)	49.63	132/270/136	0.502	0.500	1.000
Control group (n=257)					
<i>AC026703.1</i> (rs1173771,G/A)	43.47	45/123/77	0.502	0.492	0.796
<i>HFE</i> (rs1799945,C/G)	18.53	11/71/169	0.283	0.302	0.300
<i>BAG6</i> (rs805303,G/A)	34.41	36/98/113	0.397	0.451	0.066
<i>PLCE1</i> (rs932764,A/G)	45.71	56/112/77	0.457	0.496	0.246
<i>OBFC1</i> (rs4387287,C/A)	18.64	6/76/154	0.322	0.303	0.518
<i>ARHGAP42</i> (rs633185,C/G)	26.80	20/94/136	0.376	0.392	0.520
<i>CERS5</i> (rs7302981,G/A)	39.83	39/114/88	0.473	0.479	0.893
<i>ATP2B1</i> (rs2681472,A/G)	12.65	5/52/188	0.212	0.221	0.559
<i>TBX2</i> (rs8068318,T/C)	24.58	19/80/141	0.333	0.371	0.119
<i>RGL3</i> (rs167479,T/G)	50.20	65/116/64	0.474	0.500	0.443

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