

Supplementary table 1 Genotyping information of the 15 SNPs in INSIG-SCAP-SREBP pathway

	Nearest gene	Chr.	Position ^a	Source ^b	Allele		Call rate	Total sample (11/12/22)	EAF	HWE <i>P</i> -value	Genotype (11/12/22)	
					Effect	Other					Non-obese	Obese
					(1)	(2)					group	group
rs2721	<i>INSIG1</i>	7	154718676	reference[20]	T	G	99.95%	189/839/1001	0.300	0.491	135/538/651	54/301/350
rs13223383	<i>INSIG1</i>	7	154734715	reference[19]	T	G	99.75%	185/874/966	0.307	0.527	126/575/622	59/299/344
rs7566605	<i>INSIG2</i>	2	118552495	reference[11]	C	G	100.00%	283/901/846	0.361	0.084	181/590/554	102/311/292
rs10185316	<i>INSIG2</i>	2	118560948	reference[18]	G	C	99.85%	53/497/1477	0.149	0.153	32/327/963	21/170/514
rs13428113	<i>INSIG2</i>	2	118563355	tagSNP	C	T	100.00%	513/977/540	0.493	0.093	336/641/348	177/336/192
rs17047757	<i>INSIG2</i>	2	118577905	tagSNP	G	A	99.90%	140/765/1123	0.258	0.532	90/492/741	50/273/382
rs9308762	<i>INSIG2</i>	2	118580344	reference[17,33,34]	T	C	100.00%	567/989/474	0.523	0.288	370/646/309	197/343/165
rs12487736	<i>SCAP</i>	3	47434683	reference[21]	G	A	99.30%	556/1003/457	0.525	0.909	347/662/309	209/341/148
rs12490383	<i>SCAP</i>	3	47469161	reference [19]	C	T	99.56%	471/1013/537	0.484	0.873	289/667/364	182/346/173
rs2297508	<i>SREBP1</i>	17	17656042	reference [25, 27]	C	G	99.95%	43/531/1455	0.152	0.501	31/339/954	12/192/501
rs60282872	<i>SREBP1</i>	17	17680892	reference[22, 23]	DEL	C	99.80%	13/235/1778	0.064	0.09	12/154/1156	1/81/622
rs7287010	<i>SREBP2</i>	22	40564883	tagSNP	T	C	99.85%	280/975/772	0.379	0.317	183/634/506	97/341/266
rs1883205	<i>SREBP2</i>	22	40572966	tagSNP	T	C	99.90%	356/1007/665	0.424	0.452	232/673/418	124/334/247
rs133290	<i>SREBP2</i>	22	40597551	tagSNP	C	A	99.90%	204/886/938	0.319	0.805	137/580/607	67/306/331
rs2228314	<i>SREBP2</i>	22	40606688	reference [7, 24]	C	G	99.85%	101/722/1204	0.228	0.587	64/447/812	37/275/392

458 ^a Positions according to Build 36, NCBI (<http://www.ncbi.nlm.nih.gov/snp/>).

459 ^b The NO. of the reference is according to the reference list.

460 Abbreviations: *INSIG1*, insulin induced gene 1; *INSIG2*, insulin induced gene 2; *SCAP*, SREBP cleavage-activating protein gene; *SREBP1*, sterol regulatory element
 461 binding protein 1 gene; *SREBP2*, sterol regulatory element binding protein 2 gene; Chr., Chromosome; EAF, effect allele frequency; HWE, Hardy Weinberg
 462 Equilibrium.

带格式的: 宽度: 29.7 厘米, 高度: 21 厘米

带格式表格

Supplementary table 2. Results of logistic regression for the 3-locus (rs9308762/rs12487736/rs1883205) model from GMDR analyses

	<u>N</u>	<u>Non-obese(%)</u>	<u>Obese(%)</u>	<u>OR</u>	<u>95% CI</u>	<u>P-value</u>
<u>Low-risk genotypes of rs9308762/rs12487736/rs1883205</u>						
<u>CC/AA/CC</u>	<u>43</u>	<u>28(65.1)</u>	<u>15(34.9)</u>	<u>reference</u>		
<u>CC/AA/CT</u>	<u>66</u>	<u>47(71.2)</u>	<u>19(28.8)</u>	<u>0.755</u>	<u>0.331-1.718</u>	<u>0.502</u>
<u>CC/AA/TT</u>	<u>26</u>	<u>19(73.1)</u>	<u>7(26.9)</u>	<u>0.688</u>	<u>0.236-2.004</u>	<u>0.493</u>
<u>CC/AG/CC</u>	<u>64</u>	<u>43(67.2)</u>	<u>21(32.8)</u>	<u>0.912</u>	<u>0.403-2.061</u>	<u>0.824</u>
<u>CC/AG/TT</u>	<u>43</u>	<u>30(69.8)</u>	<u>13(30.2)</u>	<u>0.809</u>	<u>0.328-1.997</u>	<u>0.646</u>
<u>CC/GG/CT</u>	<u>65</u>	<u>45(69.2)</u>	<u>20(30.8)</u>	<u>0.830</u>	<u>0.366-1.882</u>	<u>0.655</u>
<u>CT/AA/CT</u>	<u>93</u>	<u>70(75.3)</u>	<u>23(24.7)</u>	<u>0.613</u>	<u>0.280-1.344</u>	<u>0.222</u>
<u>CT/AA/TT</u>	<u>33</u>	<u>23(69.7)</u>	<u>10(30.3)</u>	<u>0.812</u>	<u>0.307-2.145</u>	<u>0.674</u>
<u>CT/AG/CT</u>	<u>266</u>	<u>184(69.2)</u>	<u>82(30.8)</u>	<u>0.832</u>	<u>0.422-1.640</u>	<u>0.595</u>
<u>CT/GG/CT</u>	<u>146</u>	<u>100(68.5)</u>	<u>46(31.5)</u>	<u>0.859</u>	<u>0.419-1.760</u>	<u>0.677</u>
<u>CT/GG/TT</u>	<u>44</u>	<u>31(70.5)</u>	<u>13(29.5)</u>	<u>0.783</u>	<u>0.318-1.928</u>	<u>0.594</u>
<u>TT/AA/CC</u>	<u>33</u>	<u>24(72.7)</u>	<u>9(27.3)</u>	<u>0.700</u>	<u>0.260-1.884</u>	<u>0.480</u>
<u>TT/AA/CT</u>	<u>62</u>	<u>41(66.1)</u>	<u>21(33.9)</u>	<u>0.956</u>	<u>0.422-2.168</u>	<u>0.914</u>
<u>TT/AA/TT</u>	<u>20</u>	<u>15(75.0)</u>	<u>5(25.0)</u>	<u>0.622</u>	<u>0.189-2.047</u>	<u>0.435</u>
<u>TT/AG/CC</u>	<u>110</u>	<u>75(68.2)</u>	<u>35(31.8)</u>	<u>0.871</u>	<u>0.414-1.834</u>	<u>0.716</u>
<u>TT/AG/CT</u>	<u>119</u>	<u>83(69.7)</u>	<u>36(30.3)</u>	<u>0.810</u>	<u>0.387-1.695</u>	<u>0.575</u>
<u>TT/AG/TT</u>	<u>57</u>	<u>39(68.4)</u>	<u>18(31.6)</u>	<u>0.862</u>	<u>0.372-1.995</u>	<u>0.728</u>
<u>TT/GG/CC</u>	<u>65</u>	<u>45(69.2)</u>	<u>20(30.8)</u>	<u>0.830</u>	<u>0.366-1.882</u>	<u>0.655</u>
<u>High-risk genotypes of rs9308762/rs12487736/rs1883205</u>						
<u>CC/AG/CT</u>	<u>107</u>	<u>63(58.9)</u>	<u>44(41.1)</u>	<u>1.304</u>	<u>0.625-2.721</u>	<u>0.480</u>
<u>CC/GG/CC</u>	<u>38</u>	<u>23(60.5)</u>	<u>15(39.5)</u>	<u>1.217</u>	<u>0.493-3.005</u>	<u>0.670</u>
<u>CC/GG/TT</u>	<u>18</u>	<u>10(55.6)</u>	<u>8(44.4)</u>	<u>1.493</u>	<u>0.487-4.583</u>	<u>0.483</u>
<u>CT/AA/CC</u>	<u>81</u>	<u>42(51.9)</u>	<u>39(48.1)</u>	<u>1.733</u>	<u>0.808-3.720</u>	<u>0.158</u>
<u>CT/AG/CC</u>	<u>145</u>	<u>90(62.1)</u>	<u>55(37.9)</u>	<u>1.141</u>	<u>0.560-2.323</u>	<u>0.717</u>
<u>CT/AG/TT</u>	<u>92</u>	<u>55(59.8)</u>	<u>37(40.2)</u>	<u>1.256</u>	<u>0.591-2.666</u>	<u>0.553</u>
<u>CT/GG/CC</u>	<u>82</u>	<u>45(54.9)</u>	<u>37(45.1)</u>	<u>1.535</u>	<u>0.715-3.292</u>	<u>0.271</u>
<u>TT/GG/CT</u>	<u>74</u>	<u>37(50.0)</u>	<u>37(50.0)</u>	<u>1.867</u>	<u>0.860-4.053</u>	<u>0.115</u>
<u>TT/GG/TT</u>	<u>23</u>	<u>10(43.5)</u>	<u>13(56.5)</u>	<u>2.427</u>	<u>0.861-6.837</u>	<u>0.093</u>
<u>Genotype combination</u>						
<u>Low-risk group</u>	<u>1355</u>	<u>942(69.5)</u>	<u>413(30.5)</u>	<u>reference</u>		
<u>High-risk group</u>	<u>660</u>	<u>375(56.8)</u>	<u>285(43.2)</u>	<u>1.799</u>	<u>1.475-2.193</u>	<u>6.61 × 10⁻⁹</u>