

Supplementary information, Table S2 Relative contribution of individual genes with non-synonymous mutations to principal component 1 (PC1) and PC2.

Gene	PC1	PC2
<i>UNC13D</i>	0.853336	0.410662
<i>MMEL1</i>	0.353118	-0.718642
<i>MAFB</i>	0.170644	-0.534614
<i>COL18A1</i>	0.103604	0.024100
<i>RAB25</i>	0.096520	-0.030710
<i>TIMP2</i>	0.093306	-0.009278
<i>GRM1</i>	0.090546	0.028563
<i>ZNF180</i>	0.082410	0.027959
<i>APBA2</i>	0.080481	0.008451
<i>APC</i>	0.077080	0.015870
<i>PRKAA1</i>	0.062863	0.004390
<i>RNF213</i>	0.062376	-0.112847
<i>CASS4</i>	0.058368	0.014003
<i>EBF1</i>	0.058127	0.012251
<i>XIRP2</i>	0.052410	-0.064906
<i>TP53</i>	0.050056	-0.015397
<i>MS4A2</i>	0.049786	-0.011828
<i>SRRM2</i>	0.049178	-0.013748
<i>KCNQ5</i>	0.047863	0.004166
<i>SORBS1</i>	0.047025	0.005152
<i>TFAP2A</i>	0.046965	-0.029584
<i>TMEM132D</i>	0.045775	-0.012390
<i>AP3D1</i>	0.042425	-0.019226
<i>HAX1</i>	0.040976	0.003069
<i>SBF1</i>	0.039001	-0.014374
<i>PCDHAC1</i>	0.036323	0.001672
<i>ACSL6</i>	0.034998	0.015119
<i>SLC12A5</i>	0.033925	0.019629
<i>FERMT2</i>	0.033174	0.000732
<i>SCGB1D1</i>	0.033154	0.003702
<i>GPR97</i>	0.031927	0.009899
<i>CCDC116</i>	0.030403	0.004171
<i>CACNA1S</i>	0.029468	0.007234
<i>TIMELESS</i>	0.027875	-0.003431
<i>VCAN</i>	0.027659	-0.005059
<i>KCNH3</i>	0.026277	0.013243
<i>ZNF107</i>	0.024701	-0.004286
<i>GSX1</i>	0.024561	0.021886
<i>OR51T1</i>	0.024049	0.000000
<i>CDC27</i>	0.022983	0.006620
<i>C7orf51</i>	0.022980	0.002131
<i>CBS</i>	0.022690	-0.009484
<i>ALMS1</i>	0.022493	-0.017412
<i>ADCY9</i>	0.022010	0.003401
<i>NTSR1</i>	0.019707	0.001623
<i>HDAC3</i>	0.018810	-0.002116
<i>HPDL</i>	0.018721	-0.000473
<i>RELN</i>	0.018667	-0.000062
<i>WBSCR17</i>	0.017246	0.000388
<i>MYL1</i>	0.017219	-0.008089
<i>EGFLAM</i>	0.016295	0.013481
<i>ZNF423</i>	0.016167	0.001040
<i>FOXP2</i>	0.015883	0.000517
<i>CNTN4</i>	0.015749	0.003803
<i>ARMCX1</i>	0.015038	0.002074

<i>PLK4</i>	0.014935	-0.020989
<i>GPSM2</i>	0.013540	-0.006421
<i>SMPD3</i>	0.013494	-0.009768
<i>SLITRK5</i>	0.013146	0.005249
<i>PRPF6</i>	0.013077	0.017454
<i>MYST3</i>	0.013060	-0.000570
<i>ELK3</i>	0.011713	-0.001612
<i>USP8</i>	0.010802	0.000659
<i>SYNE1</i>	0.010767	0.004872
<i>KIAA1522</i>	0.010450	-0.002133
<i>TRAF1</i>	0.009998	-0.021882
<i>ARL6IP6</i>	0.009594	-0.028242
<i>CENPL</i>	0.008022	0.002270
<i>PTTG1IP</i>	0.007933	-0.004075
<i>MXRA5</i>	0.006191	-0.002161
<i>OR6C75</i>	0.005954	0.000869
<i>PARP4</i>	0.005521	-0.008546
<i>KRT38</i>	0.002231	-0.002043
<i>ARID5B</i>	0.001721	-0.004630
<i>USP6</i>	0.001670	-0.007945
<i>PTPN11</i>	0.001515	0.009754
<i>ZNF474</i>	0.001473	0.000443
<i>KIR3DL2</i>	0.001107	0.009861
<i>ZNF285A</i>	-0.000264	-0.022641
<i>STAM</i>	-0.000830	-0.000743
<i>ZHX3</i>	-0.001248	0.003171
<i>MLL3</i>	-0.001932	-0.007741
<i>SIGLEC10</i>	-0.004037	-0.001184
<i>KRTAP5-2</i>	-0.004707	-0.000185
<i>TNFRSF9</i>	-0.007839	-0.012980
<i>PABPC1</i>	-0.013092	0.001697
<i>TCEAL3</i>	-0.014227	0.008777
<i>PABPC3</i>	-0.015834	-0.006446
<i>OR5L1</i>	-0.017233	-0.005193
<i>LOC649330</i>	-0.040389	-0.017169
