Supplementary Table 1.
OMIM morbid genes in genomic coordinates Chr19: 275925-7660356 and DDG2P classification

#	Gene	Description	DDG2P
1	*ABCA7*	ATP binding cassette subfamily A member 7.	-
2	*ADAT3*	Adenosine deaminase tRNA specific 3	-
3	*AMH*	Anti-Mullerian hormone	-
4	*AP3D1*	Adaptor related protein complex 3 subunit delta 1	-
5	*APC2*	APC regulator of WNT signaling pathway 2	**P**
6	*ARHGEF18*	Rho/Rac guanine nucleotide exchange factor 18	-
7	*ATCAY*	ATCAY kinesin light chain interacting caytaxin	-
8	*ATP5D*	ATP synthase F1 subunit delta	**P**
9	*BSG*	Basigin	-
10	*C19orf70*	Mitochondrial contact site and cristae organizing system subunit 13	-
11	*C3*	Complement C3	-
12	*CD70*	CD70 molecule	-
13	*CFD*	Complement factor D	-
14	*CLPP*	Caseinolytic mitochondrial matrix peptidase proteolytic subunit	**P**
15	*EEF2*	Eukaryotic translation elongation factor 2	-
16	*ELANE*	Elastase, neutrophil expressed	-
17	*FUT3*	Fucosyltransferase 3	-
18	*FUT6*	Fucosyltransferase 6	-
19	*GAMT*	Guanidinoacetate N-methyltransferase	**Y**
20	*GIPC3*	GIPC PDZ domain containing family member 3	-
21	*GNA11*	G protein subunit alpha 11	**P**
22	*GPX4*	Glutathione peroxidase 4	**P**
23	*INSR*	Insulin receptor	-
24	*KISS1R*	KISS1 receptor	-
25	*LMNB2*	Lamin B2	-
26	*LONP1*	Ion peptidase 1, mitochondrial	**P**
27	*MAP2K2*	Mitogen-actived protein kinase kinase 2	**Y**
28	*MCOLN1*	Mucolipin 1	**Y**
29	*NDUFA11*	NADH: ubiquinone oxidoreductase core subunit A11	-
30	*NDUFS7*	NADH:ubiquinone oxidoreductase core subunit S7	**Y**
31	*PIP5K1C*	Phosphatidylinositol-4-phosphate 5-kinase type 1 gamma	-
32	*PNPLA6*	Patatin like phospholipase domain containing 6	-
33	*RAX2*	Retina and anterior neural fold homeobox 2	-
34	*REEP6*	Receptor accessory protein 6	-
35	*SH3GL1*	SH3 domain containing GRB2 like 1, endophilin A2	-
36	*STK11*	Serine/threonine kinase 11	-
37	*TBXA2R*	Thromboxane A2 receptor	-
38	*TCF3*	Transcription factor 3	-
39	*TICAM1*	Toll like receptor adaptor molecule 1	-
40	*TLE6*	TLE family member 6, subcortical maternal complex member	-
41	*TUBB4A*	Tubulin beta 4A class IVa	**Y**

DDG2P: Developmental disorder genotype-phenotype database classification
P: The gene is probably associated with developmental disorders
Y: The gene is confirmed as causing developmental disorder in multiple un related cases