

Supplemental Table S11. Functional gene categories enriched for genes with the frameshift mutations.

Functional category	Term ID	Term description	Involved gene number	P value (< 0.01)
GO-MF	GO:0030554	Adenyl nucleotide binding	103	8.53E-06
GO-MF	GO:0001883	Purine nucleoside binding	104	9.60E-06
GO-MF	GO:0032559	Adenyl ribonucleotide binding	96	3.96E-05
GO-MF	GO:0017076	Purine nucleotide binding	116	6.33E-05
GO-MF	GO:0005524	ATP binding	94	6.55E-05
GO-BP	GO:0000904	Cell morphogenesis involved in differentiation	24	2.33E-04
GO-MF	GO:0043169	Cation binding	218	2.35E-04
GO-MF	GO:0032555	Purine ribonucleotide binding	109	2.43E-04
GO-MF	GO:0043167	Ion binding	220	3.04E-04
GO-BP	GO:0048667	Cell morphogenesis involved in neuron differentiation	21	4.81E-04
GO-BP	GO:0030030	Cell projection organization	30	7.94E-04
GO-BP	GO:0048666	Neuron development	28	1.02E-03
KEGG-pathway	hsa04512	ECM-receptor interaction	12	1.19E-03
GO-MF	GO:0005272	Sodium channel activity	7	2.06E-03
GO-BP	GO:0000902	Cell morphogenesis	28	2.07E-03
GO-BP	GO:0032989	Cellular component morphogenesis	30	2.51E-03
GO-MF	GO:0003774	Motor activity	15	2.99E-03
GO-BP	GO:0007409	Axonogenesis	18	3.02E-03
GO-MF	GO:0004697	Protein kinase C activity	5	3.07E-03
GO-BP	GO:0048858	Cell projection morphogenesis	21	3.31E-03
KEGG-pathway	hsa04510	Focal adhesion	19	3.60E-03
GO-BP	GO:0048812	Neuron projection morphogenesis	19	3.61E-03
GO-BP	GO:0035303	Regulation of dephosphorylation	6	3.96E-03
GO-MF	GO:0003777	Microtubule motor activity	10	5.35E-03
GO-BP	GO:0032990	Cell part morphogenesis	21	5.41E-03
GO-BP	GO:0030182	Neuron differentiation	31	5.45E-03
GO-BP	GO:0022610	Biological adhesion	44	7.26E-03