

Human gene	Chr.	Position	Ref.	Alt.	Variant Type	Family	Phenotype change of 16p12.1 homologs	Genetic interaction with 16p12.1 genes
<i>SETD5</i>	chr3	9488832	T	TAC	Frameshift insertion	GL_01	Enhancer <i>Sin</i> ; Enhancer <i>CG14182</i>	Positive: <i>Cen</i> Negative: <i>CG14182</i>
<i>LAMC3</i>	chr9	133927967	C	T	Stopgain	GL_01	Enhancer <i>UQCR-C2</i>	Positive: <i>UQCR-C2</i> and <i>Sin</i>
<i>DMD</i>	chrX	33229421	C	T	Stopgain	GL_01	No change/Not validated	Positive: <i>Sin</i>
<i>DPM1</i>	chr20	49574926	C	T	Stopgain	GL_01	No change/Not validated	No interaction/Not validated
<i>DNAH7</i>	chr2	196759808	A	AT	Stopgain	GL_07	No change/Not validated	No interaction/Not validated
<i>PDE11A</i>	chr2	178879181	G	A	Stopgain	GL_07	No change/Not validated	No interaction/Not validated
<i>CEP135</i>	chr4	56877651	CAG	C	Frameshift deletion	GL_11	Suppressor <i>UQCR-C2</i>	Negative: <i>Cen</i> and <i>Sin</i>
<i>NRXN1</i>	chr2	50837494	NA	NA	Deletion	GL_11	Enhancer <i>UQCR-C2</i> and <i>Sin</i>	Positive: <i>CG14182</i>
<i>PDLIM5</i>	chr4	95575739	A	G	Nonsynonymous	GL_12	Enhancer <i>Cen</i> , <i>CG14182</i>	Positive: <i>UQCR-C2</i> and <i>Sin</i>
<i>ARID1B</i>	chr6	157099425	A	AGC	Frameshift insertion	GL_13	Suppressor <i>UQCR-C2</i> , <i>Cen</i> , <i>CG14182</i> , and <i>Sin</i>	Positive: <i>Cen</i> and <i>CG14182</i>
<i>PEX1</i>	chr7	92123885	GAGGAGCA	G	Frameshift deletion	GL_13	Enhancer <i>Sin</i>	Positive: <i>CG14182</i>
<i>PYGM</i>	chr11	64527223	G	A	Stopgain	GL_15	No change/Not validated	Potential positive <i>UQCR-C2</i> , <i>Cen</i> , <i>Sin</i> , <i>CG14182</i>
<i>DST</i>	chr6	56480833	G	A	Stopgain	GL_19	Enhancer <i>UQCR-C2</i> , <i>Cen</i> , <i>Sin</i> , and <i>CG14182</i>	Positive: <i>UQCR-C2</i> , <i>Cen</i> , <i>Sin</i>
<i>PSMD1</i>	chr2	231949783	T	A	Stopgain	GL_19	Enhancer <i>UQCR-C2</i> , <i>Sin</i> , and <i>CG14182</i>	Potential positive: <i>UQCR-C2</i> , <i>Sin</i>
<i>RAPGEF6</i>	chr5	130771676	G	A	Stopgain	GL_20	Enhancer <i>UQCR-C2</i> , <i>Cen</i> , <i>Sin</i> , and <i>CG14182</i>	Positive: <i>UQCR-C2</i> , <i>CG14182</i>
<i>NALCN</i>	chr13	101763037	G	C	Stopgain	GL_22	No change/Not validated	No interaction/Not validated
<i>CADPS</i>	chr3	62739381	C	T	Nonsynonymous	GL_22	Enhancer <i>Sin</i>	Positive: <i>UQCR-C2</i> and <i>Sin</i>
<i>CAPN9</i>	chr1	230895256	A	G	Splicing	GL_33	Enhancer <i>UQCR-C2</i> and <i>CG14182</i>	Potential positive: <i>Sin</i>

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<i>CHRNA7</i>	chr15	30936285	NA	NA	Deletion	GL_36	Enhancer <i>Cen</i>	Potential negative <i>Cen</i> , <i>Sin</i> , <i>CG14182</i>
<i>USP45</i>	chr6	99891524	C	A	Stopgain	GL_46	No change/Not validated	Potential no interaction
<i>PDE11A</i>	chr2	178681632	CA	C	Frameshift deletion	GL_46	No change/Not validated	No interaction/Not validated
<i>DNAH10</i>	chr12	124289588	G	C	Splicing	GL_48	Enhancer <i>UQCR-C2</i> and <i>Sin</i> , Enhancer <i>CG14182</i>	Potential positive: <i>UQCR-C2</i> , <i>Cen</i> , <i>CG14182</i>
<i>CACNA1A</i>	chr19	13342531	G	A	Nonsynonymous	GL_51	Suppressor <i>CG14182</i>	Potential positive <i>UQCR-C2</i> , <i>Cen</i> , <i>Sin</i> , <i>CG14182</i>
<i>OPRL1</i>	chr20	62729293	GAC	G	Frameshift deletion	GL_52	No change/Not validated	No interaction/Not validated