

Supplemental Data
AJHG, Volume 85

Identification of Mutations in *TRAPPC9*, which Encodes the NIK and IKK- β Binding Protein, in Nonsyndromic Autosomal Recessive Mental Retardation

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Table S1. Primers for *TRAPPC9*. These primers were used to amplify TRAPPC9 from the genomic DNA of family members. All primers are shown in 5' to 3' direction.

Exon	Forward Primer	Reverse Primer	Size
Exon 1	CGCCTTGGCACTGAACTAAC	GAGGAAAGCTTCTGCACCTG	450bp
Exon 2	GGGTAGGCTCTCAGCACTCA	CGGGAGTCATACAGTGTGGA	412bp
Exon 2-2	CCATCACAGACTGCTTCTCG	TTGCTGCAATGAAATTCTGC	421bp
Exon 2-3	CAAATGAGCGTCCCTGACT	TCTTGTCTGTGGCTCTGTCCA	515bp
Exon 3	GAGAATTGAATAGTGCTTAGTCAGAG	GCACCCAGCCTCTCATTTTA	300bp
Exon 4	GCTAATGAAGGGTCACTGACTTG	TCCTAACTCAAAGGAAAAGTAACAAA	303bp
Exon 5	CAAGTCAGATTTTTCTCTAGGCTATG	GGACCCACCAATCAATCATC	304bp
Exon 6	CATGCTCCTCTTTAACAAGAAA	TGCATTAGAGAGCAAGACATGAA	330bp
Exon 7	ATGGGGGAAGTGCTGTTGTA	TTATCATGGCATGCTGAACC	344bp
Exon 8	CAGGTCTTTGTTTTATGAAGAGACA	CAGGGCAGGGATCTAGTCAT	447bp
Exon 9	GTTTGGTGGTTGAGGCATCT	CAAGCCCAGGGTTTACATGA	344bp
Exon 10	AATGAAAGCCAGCCACTTTG	CCGATACACAGCCAACAAA	307bp
Exon 11	ATCCTGAAACCACGCTAACC	ACATGCATGAACTGGCTCAA	304bp
Exon 12	TGCCAGAGGAATAATTGGAAA	TCGTAAGATGTGTGCCTCAGA	265bp
Exon 13	TGTGCCATAGCCAATGTCTT	AACTGGTTAGGACTGGCATGA	325bp
Exon 14	GAAGAGGAGCCCCGTACTCT	TTACAGGCTCTTTGTGCCATT	321bp
Exon 15	TGGTGATTCTTCTTTGGGAAG	CTGACTTCAACTGAATCCACAAA	374bp
Exon 16	GGGGATTGGTAAGTCCCATA	ACAAAGTGCCAGGAGATGT	367bp
Exon 17	CAAAGGTTGCAGTGAGCAGA	ACCAAACAATGCACTCAAGC	458bp
Exon 18	GCCTCCTGGTGGATCAAAC	ACGGGATGCATGACAAAAC	310bp
Exon 19	AAGTGGTGGGAAGTCTTTGG	TGAGGACTTGGGGTGGATTA	300bp
Exon 20	TGAAGTCAGGGCCACCTTAG	GTGGGGCCTTTGAAGTGTTA	517bp
Exon 21	CCCATCTGAGGGTCTCTGTC	TTCCCGTGATGACCTTCAGT	309bp
Exon 22	CACACATCTGTGTCCCCAGT	CACATTTTCCTGCTTCACCA	623bp
Exon 23	CCTATGTCCAGGCAGATTCC	CAGTGAAGGCCTTGCTCATT	348bp

Table S2. Primers used for quantitative PCR to determine relative expression of *TRAPPC9* in normal versus affected individuals. Primers for *TRAPPC9* and *HPRT1*, our internal control are shown. Primers are shown in 5' to 3' direction.

Gene	Exon	Forward Primer	Reverse Primer	Size
TRAPPC9	Spans Exon 2 and 3	GATAAGATCCCCCTTCTCTGTGTC	CTTGGCACCGCTTCTTGTAAT	91bp
HPRT	Spans Exons 6-8	TGGTCAGGCAGTATAATCCAAA	TCAAGGGCATATCCTACAACAA	136bp