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Product datasheet for SC321046

MTRFR (NM_152269) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTRFR (NM_152269) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTRFR
Synonyms:	C12orf65; COXPD7; SPG55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_152269.1
TCGCGATTGCGAATCCTCCGCTGAGGTGATTTGGATATCCCTAGAACGTTGAGGGCACGA
GTCGGGTCCTGAGACCAGGTCCTCAGCCAGCAGAGCCACGTTCCTTATGAGCACCGTGGG
TTTATTTCATTTTCCTACACCACTGACCCGAATATGCCCGGCGCCATGGGGACTCCGGCT
TTGGGAGAAGCTGACGTTGTTATCCCCAGGAATAGCTGTCACTCCGGTCCAGATGGCAGG
CAAGAAGGACTACCCTGCACTGCTTTCCTTGGATGAGAATGAACTCGAAGAGCAGTTTGT
GAAAGGACACGGTCCAGGGGGCCAGGCAACCAACAAAACCAGCAACTGCGTGGTGCTGAA
GCACATCCCCTCAGGCATCGTTGTAAAGTGCCATCAGACAAGATCAGTTGATCAGAACAG
AAAGCTAGCTCGGAAAATCCTACAAGAGAAAGTAGATGTTTTCTACAATGGTGAAAACAG
TCCTGTTCACAAAGAAAAACGAGAAGCGGCGAAGAAAAAACAAGAAAGGAAAAAAGAGC
AAAGGAAACCCTGGAAAAAAAGAAGCTACTTAAAGAACTGTGGGAGTCAAGTAAAAAGGT
CCACTGAGAAAAGAATTAGAGATTCCAACTGACAGAATCTGCCAGAAGCTCCCAGGGAAT
AATGGTGGCGAGTTCCATCACCAGCATTATTATAGTGCTTCAAAAGAAATATTTTTGATG
AACTTAAAAGACAACAAATTTATTTAAATGGTGCACTAAACTGTAGTGAACAGAGACATG
CACGATTCAAGAATAAAACTCGGCCGGGCACGGTGGACGGTGCCTCACATCTGTAATCCC
AGCACTTTGGGAGGCCGAGGCGGGCGGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTG
GCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCATGGTGGC
GGGCACCTGTAATCCCAGCTACTCGGGAGGCCGAGGCAGGAGAATTGCGTGAACCTGGGA
GGCGGAGGTTGCAGTGAGCTGAGATCGCGCCACTGCACTCAAGCCTGGGCAACACCTGGG
TGACAGAGCAAGACCCCATCTCAAAAAAAAAATAAAACTAGGTCAAGTGCAATGACACAC
GCCTATAATCCCAGCACCTTGGGAGGCTAAGACAGGAAGATCACCTGAGCCCAGGAGCTC
AAGATTGCAGTGAGCTATGAACACCACTGCACTCCACCTGTCCACTTGTTCTTGTGTGAC
AGAACAAGACCCTGTCTCTAAAAAATAAGATAAAACCATAAAGAAACACAGTCAGTACTA
TACAAGAATAATGGCTACTTCTAGAGGGAAGGAGTTGTCATTGTGATGAGGCACTTGGAG
GGGTTCTGGGGTGCCTGACAAAGTTCTGTTTCTTCACCTGGGTGGTAGTTAGAAGGGTGT
CCCCGTATTTCAAATTGTACCTTTGTGAGATTGTATGTTTTGTAATAATAAAATTTTTTT
TGTAATTAGTAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_152269
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_152269.1, NP_689482.1
RefSeq Size:	2072 bp
RefSeq ORF:	501 bp
Locus ID:	91574
UniProt ID:	Q9H3J6
Cytogenetics:	12q24.31
Gene Summary:	This nuclear gene encodes a mitochondrial matrix protein that appears to contribute to peptide chain termination in the mitochondrial translation machinery. Two different 1 bp deletions (resulting in the same premature stop codon)result in decreased mitochondrial translation, decreased levels of oxidative phosphorylation complexes and encepthalomyopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2010] Transcript Variant: This variant (1) uses the 5'-most alternate exon. Variants 1, 2, and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.