

Product datasheet for **SC122271**

MTRF1 (BC027731) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTRF1 (BC027731) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTRF1
Synonyms:	MGC47721; mitochondrial translational release factor 1; mitochondrial peptide chain release factor 1; MRF1; MTTRF1; OTTHUMP00000018315; OTTHUMP00000018316; RF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC027731 edited
 GGCACGAGGCGGGTTTGTGCGGGCTGAAATGTGGCGGGTCTCGGAAGGTTCCGACCTCAGT
 AAAGAGAGCTAACGTGTATTCTTCTTTTTCTTAGCGTGTGCTTTGTGCGCCACGCTGGT
 TGCAGTGGTGGATCTCAGTTCAGTTCGCAACCTTCGCCTCCCAGGTTCAAGCGATTATCCT
 GCCTCAGCTTCCCAGCAGCTAGGACTACAGGTGTGTCCATCACGCTCAGCTAATTTTT
 TTGGTATTTTTAGTAGAGATGGGGTTTTCCCATGTTGGCCAGGCTGGTCTCGAACTCCTG
 ACCTCAGATGATCTGCCCGCCTCGGCCTCCCAAAGTGGTAGGATTACAGGCGTGAGCCAC
 TGTGCTCGGCACATTTTATGCTGAGATGAATCGTCACCTGTGTGTTGGCTTTTTAGAC
 ATCCATCTCTTAATGGTTACCTCCAGTGTACATCCAGCTCCATTCTCATCAATTTAGAC
 AGATACATCTTGATACAAGGCTGCAAGTTTTAGACAAAAACAGGAATTGCATTCTTCATC
 TGTTAAGTAAGAATTGGTCCAGGAGATATTGCCATCAAGACACCAAGATGCTCTGGAAGC
 AATAAGCACTACAGAAATATATGGAGAACCTGAGTAAGGAGTACCAAACACTTGAGCAAT
 GTCTGCAGCATATCCCTGTGAATGAGGAAAACCGAAGGTCCTTGAACAGAAGGCATGCTG
 AGTTGGCACCTCTGCAGCCATTTACCAAGAAATTCAGGAGACTGAACAAGCAATTGAAG
 AATTAGAATCAATGTGTAAGAAAGACAGAGTCTTGTCTGTGGCCAGGCTGGAATGCAGT
 AGTGTAATCATAGCTCACTTTAACCTTGAACCTCTGGACTCAAGCAATCTCCAACCTCA
 GCCTCCCAAGTAGCTGGGACTACAGGCCTAAATAAACAAGATGAAAAGCAGTTACAAAGAA
 CTTGCACTGGAAGAAAGGCAAACCATTTGATCAAAAAATCAACATGTTGTACAATGAGCTT
 TTCCAGAGCCTTGTGCCAAAGGAGAAATATGACAAAAATGATGTTATTTTAGAGGTGACA
 GCTGGAAGGACTACTGGAGGTGACATCTGCCAACAAATTTACCCGAGAAATATTTGACATG
 TACCAGAAATATTCGTGCTATAAACACTGGCAATTTGAACTTCTGAATTATACACCAGCA
 GATTATGGTAGGCATATTGAGGAATTTGCCTGTAGGAGATACTGAAAATATTTTACCTC
 TGATCTTGATTAGAACCATATTGTCCCATTTTTTTTTGAAACTTTTGGTGTATATCTACT
 AAACACTGTGGCATAGGCTCATCAATCACAGTGGCTTACTATTATAGCAGAGTTGTTAGC
 TAGGAGAAGACAGTAGAAAGGAGGAAGCATTGCTTAGGGAGAAATATGTGAATTAGAG
 AAAATCCCTGAGGAACCTAGATACGTATCTTGCCTCAAAATCATTTTTCTCTATTATT
 GAAAGCAAAGGTATATTAAGGTTTTTACTTTAAATAACTTTATAAAATAATATAAGTATT
 ACTAATTAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC027731 unedited
 GGGNNCGGCCGCGCAATTCGGCACGAGGCGGGTTTGTGCGGGCTGAAAGTGGCGGGTCTCG
 GAAGGTTCCGACCTCAGTAAAGAGAGCTAACGTGTATTCTTCTTTTTCTTAGCGTGTGTC
 TTTGTGCGCCACGCTGGTTGCAGTGGTGCATCTCAGTTCAGTTCGCAACCTTCGCCTCCCA
 GGTTCAAGCGATTATCCTGCCTCAGCTTCCCAGCAGCTAGGACTACAGGTGTGTGCCAT
 CAGCCTCAGCTAATTTTTTGGTATTTTTAGTAGAGATGGGGTTTTCCCATGTTGGCCAG
 GCTGGTCTCGAACTCCTGACCTCAGATGATCTGCCCGCCTCGGCCTCCCAAAGTGGTAGG
 ATTACAGGCGTGAGCCACTGTGCTCGGCACATTTTATGCTGAGATGAATCGTCACCTGT
 GTGTTGGCTTTTTAGACATCCATCTCTTAATGGTTACCTCCAGTGTACATCCAGCTCC
 ATTCTCATCAATTTAGACAGATACATCTTGATACAAGGCTGCAAGTTTTTAGACAAAAACA
 GGAATTGCATTCTCATCTGTTAAGTAAGAATTGGTCCAGGAGATATTGCCATCAAGACA
 CCAAGATGCTCTGGAAGCATAAAGCACTACAGAAATATATGGAGAACCTGAGTAAGGAGT
 ACCAAACACTTGAGCAATGTCTGCAGCATATCCCTGTGAATGAGGAAAACCGAAGTCTCT
 TGAACAGAANGCATGCTGAGTTGGCACCTCTGCAGCCATTTACCAAGAAATTCANGAGA
 CTGNNACAGCATTGNAGAATTAGNNATCAATGTGTAAGAAAGACAGAGTCTTGTCTGTGCT

Restriction Sites: Please inquire

ACCN: BC027731

Insert Size: 1595 bp

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).
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:	<ol style="list-style-type: none">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:	BC027731.1 , AAH27731.1
RefSeq Size:	1595 bp
Locus ID:	9617
Cytogenetics:	13q14.11
Gene Summary:	The protein encoded by this gene was determined by in silico methods to be a mitochondrial protein with similarity to the peptide chain release factors (RFs) discovered in bacteria and yeast. The peptide chain release factors direct the termination of translation in response to the peptide chain termination codons. Initially thought to have a role in the termination of mitochondria protein synthesis, a recent publication found no mitochondrial translation release functionality. Multiple alternatively spliced transcript variants have been suggested by mRNA and EST data; however, their full-length natures are not clear. [provided by RefSeq, Jul 2008]