

Product datasheet for **MC220120**

Guf1 (NM_172711) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Guf1 (NM_172711) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Guf1
Synonyms:	4631409J12; AA407526; EF-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220120 representing NM_172711
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGGCGCTCGTGGGCGGGCTCTCGCGCCGTGGGCCGCCGGGCCCCGGCACGCGGCTGCCTCGGAGC
 CCAGGGCCGCCTGCAGGCTCTTCAGCGCGGCCGAGCTCAAGGAGAAACCTGACATGTCTAGATTTCTGT
 TGAAGACATTAGAAATTTAGATCATTGCACATGTGGATCATGGCAAAAGCACTTTAGCTGACAGGCTC
 CTGGAGCTAACAGGAACAATTGATAAGACGAAGAAAAACAAGCAGGTTCTTGATAAATTACAAGTAGAAC
 GAGAAAGAGGAATCACTGTGAAGGCGCAGACAGCCTCTCTGTTTTACAGCTTTGGAGGAAACAGTACCT
 TTTAAACCTCATCGACACACCAGGCCACGTTGATTTTAGTTATGAAGTGTCCAGTCACTGTCTGCATGC
 CAAGGTGTTTTACTGGTAGTGGATGCAATGAGGGTATCAAGCTCAAAGTGTGGCAACTTCTTCCTTG
 CTTTTGAAGCACAGCTGCAGTAATCCAGTTATCAATAAGATAGATCTGAAGAATGCTGACCCTGAAAG
 GGTGGGAAAGCAGATTGAAAAAGTATTTGATATCCCTAGTGAGGAGTGTATTAAGATTTCTGCGAAACTT
 GGGACAAACGTTGACAGTGTGCTTCAGGCACTTGAACGAATACCTCCCAAAGTCCATCGTGAAA
 ACCCACTGAAAGCTTTGGTATTTGACTCCACCTTTGACCAGTACAGAGGGGTGATAGCCAATATAGCACT
 GTTTGATGGAGTGGTTTCCAAGGGAGATAAAATTTGATCTGCACATACTAAAAAGCATATGAAGTCAAT
 GAAGTAGGCATTTTGAATCCATAATGAACAGCCAACCTATAAATATATGCAGGACAGGTGGGCTTTCTGA
 TTGCTGGGATGAAAGATGCACTGAAGCACAAATAGGAGACACATTATTTACATAATCATCCAGTGGA
 ACCCTTGCTGGGTTTAAATCAGCGAAACCAATGGTGTTCAGGAGTGTACCCTATAGACCAATCTGAG
 TACAATAACCTGAAGAGTGTATAGAAAACTGACCTTAAATGACTCAAGTGTAAACAGTGCATCGGGATA
 GTAGCTGGCCCTGGGTGCTGGCTGGAGTTGGGTTTTCTGGACTTTTACATATGGAGTTTTCAACCA
 CGGATTAGAGCAAGAATAAACGCTTCTGTCAATTTGACAACCCCACTGTTCCATACAAAGCTGTTCTT
 TCCTCTGCAAAATTAATAAAGGAATATAAAGAGAAGGAGATCACAAATCATCAACCCTGCACAGTTCCTG
 AGAAGTCCCAAGTAACAGAATATTTGGAACCTGTTGTTTTGGGCACTGTTATTACACCGACTGAGTACAC
 TGGAAAAATAATGGCGCTTTGTCAGGCACGAAGAGCAATTCAGAAAAATATGACTTTTATTGATGAAAT
 AGAGTTATGCTTAAATATCTCTCCCTTGAATGAAATTTGGTGTAGATTTTATGACTCTTTGAAGTCTC
 TCTCTTCTGGATATGCAAGTTTTGATTATGAAGATGCCGTTACCAGACTGCAGAACTCGTAAAAATGGA
 TATTCTGCTGAATGAAATATGGTGAAGAGCTTGTAACTGTGGTCCATAGAGAGAAAGCCTACACTGTT
 GGCAAAAGCATATGTGAACGCTGAAGGAGTCTTCCCAGACAACTGTATGAGATAGCAATTCAGCTG
 CTGTTGGGAGCAAGTTATTGCAAGAGAAACAGTGAAAGCCTACAGAAAAATGTTTTGGCAAAATGTTA
 TGGTGGTGTATTTACCCGAAAAATGAAACTTCTGAAGAGACAGTCCGAAGGGAAAAAGAACTGAGGAAG
 ATTGGCAACATTGAGATTCAAAAAGACGCTTTCATAAAAAGTCTGAAAACCCAGCCTAATAAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_172711
- Insert Size:** 1956 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:

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_172711.3](#), [NP_766299.1](#)

RefSeq Size: 5018 bp

RefSeq ORF: 1956 bp

Locus ID: 231279

UniProt ID: [Q8C3X4](#)

Cytogenetics: 5 C3.1

Gene Summary: Promotes mitochondrial protein synthesis. May act as a fidelity factor of the translation reaction, by catalyzing a one-codon backward translocation of tRNAs on improperly translocated ribosomes. Binds to mitochondrial ribosomes in a GTP-dependent manner. [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).