

## Product datasheet for **MC218611**

### **Guf1 (BC057962) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Guf1 (BC057962) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Guf1
Synonyms:	4631409J12; AA407526; EF-4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC057962  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGGGCGCTCGTGGGCGGGCTCTCGCGCCGTGGGCCCGGGGCCCGCACGCGGCTGCCTCGGAGC  
 CCAGGGCCGCCTGCAGGCTCTTCAGCGCGCCGAGCTCAAGGAGAAACCTGACATGTCTAGATTTCTGT  
 TGAAGACATTAGAAATTTCAAGTATCATTGCACATGTGGATCATGGCAAAAGCACTTTAGCTGACAGGCTC  
 CTGGAGCTAACAGGAACAATTGATAAGACGAAGAAAAACAAGCAGGTTCTTGATAAATTACAAGTAGAAC  
 GAGAAAGAGGAATCACTGTGAAGGCGCAGACAGCCTCTCTGTTTTACAGCTTTGGAGGAAACAGTACCT  
 TTTAAACCTCATCGACACACCAGGCCACGTTGATTTTAGTTATGAAGTGTCCAGGTCAGTGTCTGCATGC  
 CAAGGTGTTTTACTGGTAGTGGATGCAATGAGGGTATCAAGCTCAAAGTGTGGCCAACTTCTTCCTTG  
 CTTTTGAAGCACAGCTGCAGTAATCCAGTTATCAATAAGATAGATCTGAAGAATGCTGACCCTGAAAG  
 GGTGGGAAAGCAGATTGAAAAAGTATTTGATATCCCTAGTGAGGAGTGATTAAGATTTCTGCGAAACTT  
 GGGACAAACGTTGACAGTGTGCTTCAGGCACTTGAACGAATACCTCCTCCAAAAGTCCATCGTGAAA  
 ACCCACTGAAAGCTTTGGTATTTGACTCCACCTTTGACCAGTACAGAGGGGTGATAGCCAATATAGCACT  
 GTTTGATGGAGTGGTTTCCAAGGGAGATAAAATTTGTATCTGCACATACTAAAAAGCATATGAAGTCAAT  
 GAAGTAGGCATTTTGAATCCTAATGAACAGCCAACCTATAAATTTGTTGGGTTTCTTGGACTTTTACATA  
 TGGAGGTTTTCAACCAGCGATTAGAGCAAGAATAAACGTTCTGTCAATTTTACAACCCCAACTGTTCC  
 ATACAAAGCTGTTCTTCTCTGCAAAATTAATAAAGGAATAAAAGAGAAGGAGATCACAATCATCAAC  
 CCTGCACAGTCCCTGAGAAGTCCAAGTAACAGAATATTTGAACTGTTGTTTTGGGCACTGTTATTA  
 CACCGACTGAGTACACTGGAAAAATAATGGCGCTTTGTCAGGCACGAAGAGCAATTCAGAAAAATGAC  
 TTTTATTGATGAAAAATAGAGTTATGCTTAAATATCTTCCCTTTGAATGAAATTTGGTAGATTTTAT  
 GACTCTTTGAAGTCTCTCTCTTCTGGATATGCAAGTTTTGATTATGAAGATGCCGTTACCAGACTGCAG  
 AACTCGTTAAATGGATATTCTGCTGAATGAAAATATGGTGGAAAGAGCTTGTAACTGTGGTCCATAGAGA  
 GAAAGCCTACACTGTTGGCAAAAGCATATGTGAACGCCTGAAGGAGTCTTCCAGACAACCTGTATGAG  
 ATAGCAATTCAGCTGCTGTTGGGAGCAAAGTTATTGCAAGAGAAACAGTGAAGCCTACAGAAAAATG  
 TTTTGGCAAAATGTTATGGTGGTATATACCCGGAAAAATGAACTTCTGAAGAGACAGTCCGAAGGGAA  
 AAAGAAGCTGAGGAAGATTGGCAACATTGAGATCCAAAAGACGCTTTCATAAAAGTCTGAAAACCCAG  
 CCTAATAAATGA

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** BC057962

**Insert Size:** 1692 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:** [BC057962](#), [AAH57962](#)

**RefSeq Size:** 1794 bp

**RefSeq ORF:** 1691 bp

**Locus ID:** 231279

**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]