

## Product datasheet for **MC216720**

### **Grsf1 (NM\_178700) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Grsf1 (NM_178700) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grsf1
Synonyms:	BB232551; C80280; D5Wsu31e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216720 representing NM\_178700  
Red=Cloning site Blue=ORF Orange=Stop codon

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC  
GCC

ATGGCCGGGACGCGCTGGGTGCTAGGCGGTTGCTCCGGGGCTGCGGCTGCAACTGCAGCAGCTGCCGGC  
GGACCGCGCGCCTGCCTGCCTTTCTACTCCGCGCGCGCACCTTCCCGTCGGGCGTCTTGCCGCCG  
CCGCTGCTGCTACTCCTCGGGGCCCGCGCGGCCGCTTCGCAGACGCGGGGCCCTGCAGCTCGGGCCT  
GCGGCCGCGGGAGGCTGGCGGGTCCCATCCCTGCCCGTCCCTCCGCGCGCGCGGCCGCCCGCTCCT  
ACTCGGCCCTGCGCGCCCGCTGTTTCCGCGATCGCTGGCAGCCGCCGCGGGCCCGCGGGGTTACAG  
TCAGGAATCCAAAACCTACCTACCTGGAAGACCTCCACCCTGCCTGAGTACGAGTTGAGCCATCCAAG  
CTAGGAGACGAGGTGGATGATGTTTATCTCATTGAGCTCAGGGGCTGCCGTGGTCTGCACTGTGGAAG  
ATGTTCTTAACTTTTTCTCAGACTGCAGAATCCGAAACAGTGAGAATGGAATACATTTCTCCTAAATAG  
AGATGGGAAACGGAGGGCGATGCCTTAATAGAGATGGAGTCCGAGCAGGATGTACAGAAGCCTTAGAA  
AAGCACCGGATGTACATGGGGCAGCGGTATGTGGAAGTGTATGAAATAAACAACGAAGATGTGGATGCCT  
TAATGAAGAGCCTGCAGGTCAAGCCTTCGCTGTGCTCAGTGATGGTGTGGTCCGCTGAGAGGACTTCC  
TTACAGCTGCAATGAAAAGGACATTGTGGACTTCTTTCAGGACTGAACATAGTAGACATTACTTTTGTG  
ATGGACTATAGAGGGAGAAGAAAACGGGGGAAGCCTATGTACAGTTTGAAGAACCAGAAATGGCCAACC  
AAGCGCTTCTAAAGCACAGGGAAGAAATGGTAACCGATACATAGAGATATTTCCAAGCAGAAGGAATGA  
AGTTCCGAACACATGTTGGATCTCATAAAGGAAAGAAAATGACATCGTCTCCTCTACTAAATATAACT  
GAACCAGAAGTGGTATTTGAGGAACATGAAGTAAATGAAGATATTCGGCCTATGACGGCTTTTGAGAGTG  
ATAAAGAGATAGAATTGCCTAAGGAGATGTCAGAAAACTCCAGAGGCTGTCGATTTTGAACTTGCC  
TTCCCTGCATTTTGTCCACATGAGAGGATTGCCTTTCCAAGCCAATGCCCAAGACATTATAAATTTCTTT  
GCTCCCTGAAGCCTGTGAGAATCACCATGGAATACAGCTCCAGTGGAAGGCCACTGGAGAAGCTGACG  
TGCACTTTGATACCCATGAGGATGCTGTTGCAGCCATGCTCAAGGATCGTCCCATGTCCAACATAGGTA  
TATTGAGCTGTTCTAAATTCATGTCCTAAAGGAAAA

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** AscI-MluI

**ACCN:** NM\_178700

**Insert Size:** 1440 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\\_178700.5](#), [NP\\_848815.2](#)

RefSeq Size: 2753 bp

RefSeq ORF: 1440 bp

Locus ID: 231413

UniProt ID: [Q8C5Q4](#)

Cytogenetics: 5 43.85 cM

**Gene Summary:** Regulator of post-transcriptional mitochondrial gene expression, required for assembly of the mitochondrial ribosome and for recruitment of mRNA and lncRNA. Binds RNAs containing the 14 base G-rich element. Preferentially binds RNAs transcribed from three contiguous genes on the light strand of mtDNA, the ND6 mRNA, and the long non-coding RNAs for MT-CYB and MT-ND5, each of which contains multiple consensus binding sequences (By similarity).  
[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). 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.