

Product datasheet for **MR216357**

Grsf1 (NM_178700) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR216357 representing NM_178700
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
 GCC

ATGGCCGGGACGCGCTGGGTGCTAGGCGGTTGCTCCGGGGCTGCGGCTGCAACTGCAGCAGCTGCCGGC
 GGACCGGCGCGCTGCCTGCCTTTCTACTCCGCCGCGGACCTTCCCGTCGGGCGTCTCTGGCCGCCG
 CCGCTGCTGCTACTCCTCGGGGCCCGCGGGCCCGCTTCGACAGCGGGGGCTGCAGCTCGGGCT
 GCGGCCGCGGGAGGCTGGCGGGTCCCATCCCTGCCCGTCCCTCCGCCGCGCGGGCCCGCGCGCTCT
 ACTCGGCCCTGCGCGCCCGCTGTTTCCGCGATCGCTGGCAGCCGCCGGGGCCCGCGGGGTTACAG
 TCAGGAATCCAAAACCTACCTACCTGGAAGACCTCCACCCTGCCTGAGTACGAGTTGAGCCATCCAAG
 CTAGGAGACGAGGTGGATGATGTTTATCTCATTGAGCTCAGGGGCTGCCGTGGTCTGCACTGTGGAAG
 ATGTTCTAACTTTTTCTCAGACTGCAGAATCCGAAACAGTGAGAATGGAATACATTTCTCCTAAATAG
 AGATGGGAAACGGAGGGCGATGCCTTAATAGAGATGGAGTCCGAGCAGGATGTACAGAAGCCCTAGAA
 AAGCACCGGATGTACATGGGGCAGCGGTATGTGGAAGTGTATGAAATAACAACGAAGATGTGGATGCC
 TAATGAAGAGCCTGCAGGTCAAGCCTTCGCTGTGCTCAGTGATGGTGTGGTCCGCTGAGAGGACTTCC
 TTACAGCTGCAATGAAAAGGACATTGTGGACTTCTTTCAGGACTGAACATAGTAGACATTACTTTTGTG
 ATGGACTATAGAGGGAGAAGAAAACGGGGGAAGCCTATGTACAGTTTGAAGAACCAGAAATGGCCAACC
 AAGCGCTTCTAAAGCACAGGGAAGAAATTTGTAACCGATACATAGAGATATTTCCAAGCAGAAGGAATGA
 AGTTCGAACACATGTTGGATCTCATAAAGGAAAGAAAATGACATCGTCTCCTCTACTAAATATAACT
 GAACCAGAAGTGGTATTTGAGGAACATGAAGTAAATGAAGATATTCGGCCTATGACGGCTTTTGAAGCTGCC
 ATAAAGAGATAGAATTGCTAAGGAGATGTCAGAAAACCTCCAGAGGCTGTCGATTTTGAAGCTGCC
 TTCCCTGCATTTTGTCCACATGAGAGGATTCCTTTTCCAAGCCAATGCCCAAGACATTATAAATTTCTTT
 GCTCCCTGAAGCCTGTGAGAATCACCATGGAATACAGCTCCAGTGGAAGGCCACTGGAGAAGCTGACG
 TCACTTTGATACCCATGAGGATGCTGTTGACGCCATGCTCAAGGATCGTCCCATGTCCAACATAGGTA
 TATTGAGCTGTTCTAAATTCATGCTCTAAAGGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216357 representing NM_178700
 Red=Cloning site Green=Tags(s)

MAGTRWVLGALLRGCGCNCSSRRRTGAACLPFYSAAGTFPSGVSGRRRLLLLGAASQTRGLQLGP
 AAAGRLAGPIPARPSAAAAAASYSALRAPLFPRLAAAAAGPARGYSQESKTTYLEDLPPLPEYELSPK
 LGDEVDVYLIRAQGLPWSCTVEDVLNFFSDCRIRNSENHIFLLNRDGRKRRGDALIEMESEQDVQKALE
 KHRMYMGQRYVEVYEINNEDVDALMKSLQVKPSPVLSGTVVRLRGLPYSCNEKDIVDFAGLNIVDITFV
 MDYRGRKTEAYVQFEEPEMANQALLKHREEIGNRYIEIFPSRRNEVRTHVGSCHKKMTSSPPTYKIT
 EPEVVFEHEVNEDIRPMTAFESDKEIELPKEMSEKLEAVDFGTLPSLHFVHMRGLPFQANAQDIINFF
 APLKPVITMEYSSSGKATGEADVHFDTHEDAVAAMKDRSHVQHRYIELFLNSCPK GK

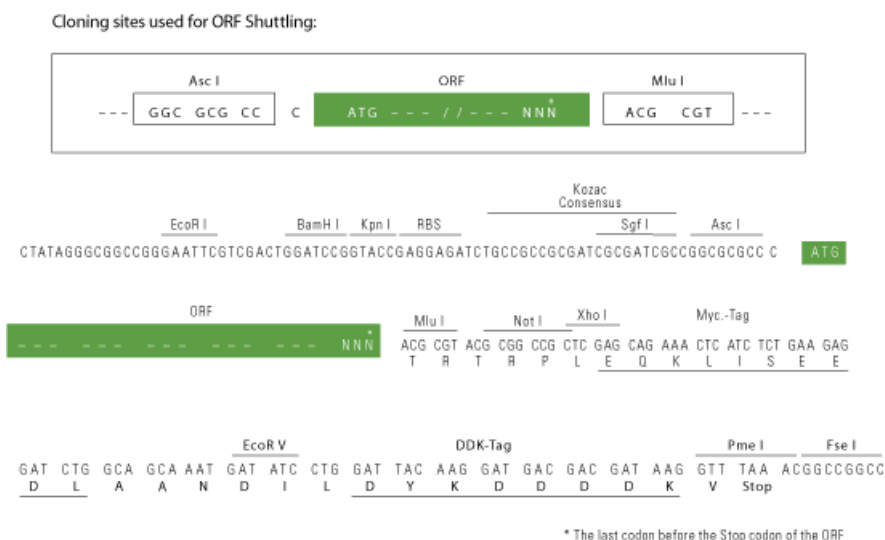
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9092_d02.zip

Restriction Sites:

Ascl-MluI

Cloning Scheme:


ACCN: NM_178700

ORF Size: 1437 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

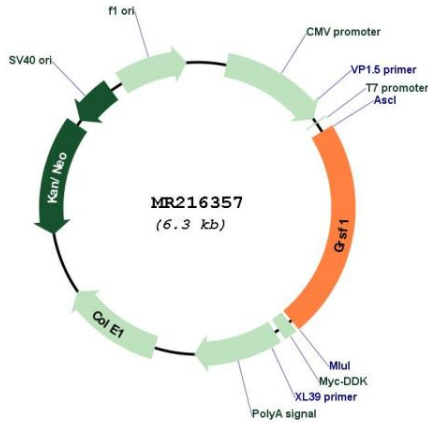
UniProt ID: [Q8C5Q4](#)

Cytogenetics: 5 43.85 cM

MW: 53.1 kDa

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]

Product images:



Circular map for MR216357