

Product datasheet for MR218866

Grsf1 (NM_001098476) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grsf1 (NM_001098476) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grsf1
Synonyms:	BB232551; C80280; D5Wsu31e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR218866 representing NM_001098476 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAATCCAAAACCTACCTACCTGGAAGACCTCCCACCACTGCCTGAGTACGAGTTGAGCCCATCCAAGC
TAGGAGACGAGGTGGATGATGTTTATCTCATTGAGCTCAGGGGCTGCCGTGGTCTGCACTGTGGAAGA
TGTTCTTAACTTTTTCTCAGACTGCAGAATCCGAAACAGTGAGAATGGAATACATTTCTCCTAAATAGA
GATGGGAAACGGAGGGCGATGCCTTAATAGAGATGGAGTCCGAGCAGGATGTACAGAAGCCTTAGAAA
AGCACCGGATGTACATGGGCAGCGGTATGTGGAAGTGTATGAAATAAACAACGAAGATGTGGATGCCTT
AATGAAGAGCCTGCAGGTCAAGCCTTCGCCTGTGCTCAGTGTGGTGGTCCGCCTGAGAGGACTTCTT
TACAGCTGCAATGAAAAGGACATTGTGGACTTCTTGCAGGACTGAACATAGTAGACATTACTTTTGTGA
TGGACTATAGAGGGAGAAGAAAACGGGGGAAGCCTATGTACAGTTTGAAGAACCAGAAATGGCCAAACCA
AGCGCTTCTAAAGCACAGGGAAGAAATGGTAACCGATACATAGAGATATTTCCAAGCAGAAGGAATGAA
GTTCCGAACACATGTTGGATCTCATAAAGGAAAGAAAATGACATCGTCTCCTCTACTAAATATAAAGTGA
AACCAGAAGTGGTATTTGAGGAACATGAAGTAAATGAAGATATTCGGCCTATGACGGCTTTTGAGAGTGA
TAAAGAGATAGAATTGCCTAAGGAGATGTCAGAAAACCTCCAGAGGCTGTCGATTTGGAACTCTGCCT
TCCTGCATTTTGTCCACATGAGAGGATTGCCTTTCCAAGCCAATGCCAAGACATTATAAATTTCTTTG
CTCCCCTGAAGCCTGTGAGAATCACCATGGAATACAGCTCCAGTGGGAAGGCCACTGGAGAAGCTGACGT
GCACTTTGATACCCATGAGGATGCTGTTGCAGCCATGCTCAAGGATCGGTCCCATGTCCAACATAGGTAT
ATTGAGCTGTTCTAAATTCATGTCCTAAAGGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218866 representing NM_001098476
 Red=Cloning site Green=Tags(s)

MESKTTYLEDLPPLPEYELSPSKLGDEVDDVYLIRAQGLPWSCTVEDVLNFFSDCRIRNSENHIFLLNR
 DGKRRGDALIEMESEQDVQKALEKHRMYMGQRYVEVYEINNEDVDALMKSLQVKPSPVLSDGVVRLRGLP
 YSCNEKDIVDFAGLNIVDITFVMDYRGRKKTGEAYVQFEEPEMANQALLKHREEIGNRYIEIFPSRRNE
 VRTHVGS HKGKMTSSPPTKYITEPEVVFEEHEVNEDIRPMTAFESDKEIELPKEMSEKLEAVDFGTLPL
 SLHFVHMRGLPFQANAQDIINFFAPLKPVRITMEYSSSGKATGEADVHFDTHEDAVAAMLKDRSHVQHRY
 IELFLNSCPKGGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

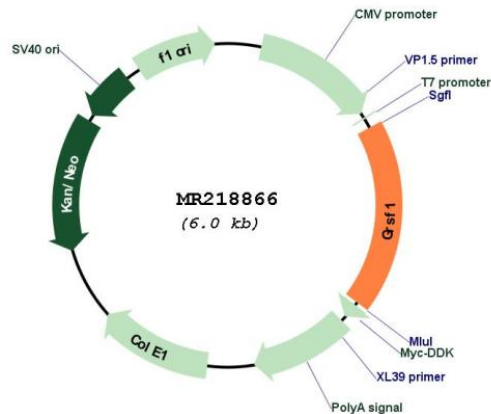
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001098476

ORF Size:	1086 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:	<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:	NM_001098476.2 , NP_001091946.1
RefSeq Size:	2421 bp
RefSeq ORF:	1089 bp
Locus ID:	231413
UniProt ID:	Q8C5Q4
Cytogenetics:	5 43.85 cM
MW:	42.1 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]