

## Product datasheet for **MG218866**

### Grsf1 (NM\_001098476) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grsf1 (NM_001098476) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grsf1
Synonyms:	BB232551; C80280; D5Wsu31e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218866 representing NM_001098476 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAATCCAAAACCTACCTACCTGGAAGACCTCCACCCTGCCTGAGTACGAGTTGAGCCCATCCAAGC  
TAGGAGACGAGGTGGATGATGTTTATCTCATTGAGCTCAGGGGCTGCCGTGGTCTGACTGTGGAAGA  
TGTTCTTAACCTTTTCTCAGACTGCAGAATCCGAAACAGTGAGAATGGAATACATTTCTCTAAATAGA  
GATGGGAAACGGAGGGCGATGCCTTAATAGAGATGGAGTCCGAGCAGGATGTACAGAAGGCCTTAGAAA  
AGCACCGGATGTACATGGGCAGCGGTATGTGGAAGTGTATGAAATAAACGAAGATGTGGATGCCTT  
AATGAAGAGCCTGCAGGTCAAGCCTTCGCTGTGCTCAGTGTGGTGGTCCGCCTGAGAGGACTTCTT  
TACAGCTGCAATGAAAAGGACATTGTGGACTTCTTGCAGGACTGAACATAGTAGACATTACTTTTGTGA  
TGGACTATAGAGGGAGAAGAAAACGGGGGAAGCCTATGTACAGTTTGAAGAACCAGAAATGGCCAACCA  
AGCGCTTCTAAAGCACAGGGAAGAAATGGTAACCGATACATAGAGATATTTCCAAGCAGAAGGAATGAA  
GTTGCAACACATGTTGGATCTCATAAAGGAAAGAAAATGACATCGTCTCCTCTACTAAATATAAACTG  
AACCAGAAGTGGTATTTGAGGAACATGAAGTAAATGAAGATATTCGGCCTATGACGGCTTTTGAGAGTGA  
TAAAGAGATAGAATTGCCTAAGGAGATGTCAGAAAACCTCCAGAGGCTGTGATTTTGAACCTGCCT  
TCCCTGCATTTTGTCCACATGAGAGGATTGCCTTTCCAAGCCAATGCCAAGACATTATAAAATTTCTTTG  
CTCCCCTGAAGCCTGTGAGAATCACCATGGAATACAGCTCCAGTGGGAAGGCCACTGGAGAAGCTGACGT  
GCACTTTGATACCCATGAGGATGCTGTTGCAGCCATGCTCAAGGATCGGTCCCATGTCCAACATAGGTAT  
ATTGAGCTGTTCTAAATTCATGCTCTAAAGGAAAA

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG218866 representing NM\_001098476  
Red=Cloning site Green=Tags(s)

MESKTTYLEDLPLPEYELSPSKLGDEVDDVYLIRAQGLPWSCTVEDVLNFFSDCRIRNSENHIFLLNR  
 DGKRRGDALIEESEQDVQKALEKHRMYMGQRYVEVYEINNEDVDALMKSLQVKPSPVLSDGVVRLRGLP  
 YSCNEKDIVDFAGLNIVDITFVMDYRGRKKTGEAYVQFEEPEMANQALLKHREEIGNRYIEIFPSRRNE  
 VRTHVGS HKGKMTSSPPTKYITEPEVVFEEHEVNEDIRPMTAFESDKEIELPKEMSEKLPEAVDFGTLPL  
 SLHFVHMRGLPFQANAQDIINFFAPLKPVRITMEYSSSGKATGEADVHFDTHEDAVAAMLKDRSHVQHRY  
 IELFLNSCPKGG

TRTRPLE - GFP Tag - V

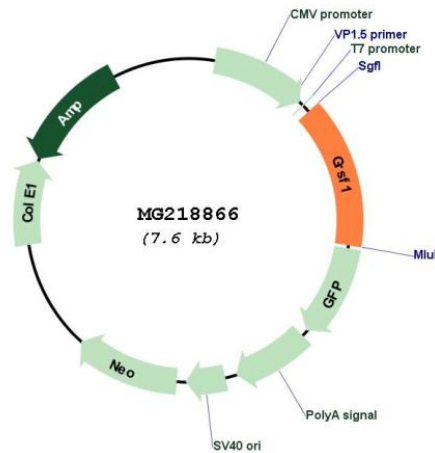
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001098476

<b>ORF Size:</b>	1086 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001098476.2</a> , <a href="#">NP_001091946.1</a>
<b>RefSeq Size:</b>	2421 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	231413
<b>UniProt ID:</b>	<a href="#">Q8C5Q4</a>
<b>Cytogenetics:</b>	5 43.85 cM
<b>Gene Summary:</b>	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]