

## Product datasheet for **MG215951**

### **Gsg1 (NM\_001080553) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Gsg1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG215951 representing NM\_001080553  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTTCAGAGGGTTCCTCTGACCAGCGGACCTTCATTTCTGCCATCCTCAACATGTTATCACTCG  
GCCTCTCCACAGCATCCTTGCTCAGCAGCGAGTGGTTGTGGGCACACAGAAGGTGCCAAGCCCTGTG  
CGGGCAAAGTCTGGCAGCCAAGTGCTTTGACATGCCGATGTCTTGGATGGGGGCATCGCCAACACATCA  
GCCCAGGAGGTGTTACAATACACCTGGGAGACTGGGGATGACCGGTTCTCCTTCCCTTCCGAGTG  
GCATGTGGCTATCCTGTGAGGAAACCATGGAAGAGCCAGGGGAGAAGTGCAGACGTTTCATTGAACTCAC  
ACCACCAGCCAGAGAGGTGAGAAAGGACTACTGGAATTTGCCACGTTGCAAGGCTCATGTACCCCACT  
CTCCGATTTGGAGGGGAGTGGTTAATGGAGAAGGCTTCTCTCCACCTCCCTTGGGGGCCCGTGGCAA  
AGGTCTTTGGCTGTCACTGGGAGCCAGACTGCCTATATCGGACTTCAACTCATCAGCTTCTCTCTGCT  
ACTGACGGATCTGTTGCTCACCACGAACCTGGCTGTGGGCTCAAGCTAAGCGGTTTGCAGCCGCTCC  
TTGGTCTGTGAGGACTTCTGGGGATGGTGGCTCATATGCTATATCACAAGTCTCCAGGCAACTGCCA  
ACTTAGGTCGGGAGGACTGGAGACCACACTCTTGAATTACGGCTGGGCTTCTACACAGCGTGGGTTTC  
TTACCTGTGTCATGGCGTCAGCGGTCAACACCTTCAACATGTACACGAGGATGGTGTGGAGTTCAAG  
TGCAGGCACAGCAAGAGCTTTAACACCAACCCAGCTGCCTGGCGCAGCACCACCGCTGTTTCTTCTCCT  
CTCCGCTGACGTGCACAACCCACGCAGGGGAACCTTTGTCCAGTGCATCAGTACCCAGCCATCCCAT  
CCGCTGTCTCTGAAGCTATTGACCTCTACTCGGCGCTACAGGACAAAGAATTTCAACAAGGGATCAGC  
CAGGAGCTAAAGGAAGTGGTCGAGCCATCTGTAGAAGAGCAGCGT

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >MG215951 representing NM\_001080553  
 Red=Cloning site Green=Tags(s)

MEFQKSSDQRTFISAILNMLSLGLSTASLLSSEWVFGTQKVPKPLCGQSLAAKCFDMPMSLDGGIANTS  
 AQEVVQYTWETGDDRFSLAFLRSGMWLSCEETMEEPGEKCRRFIELTPPAQRGEKGLLEFATLQGSCHPT  
 LRFGGEWLMEKASLLHLPWGPVAKVFWLSLGAQTAYIGLQLISFLLLLTDLLLTTNPGCGLKLSAFAAVS  
 LVL SGLLGMVAHMLYSQVFQATANLGPEDWRPHSWNYGWAFYTAWSFTCCMASAVTTFNMYTRMVLEFK  
 CRHSKSFNTNPSCLAQHRCFLPPPLTCTTHAGEPLSSCHQYPSHPIRS VSEAIDLYSALQDKEFQQGIS  
 QELKEVVEPSVVEEQR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001080553

**ORF Size:** 1095 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001080553.1](#), [NP\\_001074022.1](#)

**RefSeq Size:** 1388 bp

**RefSeq ORF:** 1098 bp

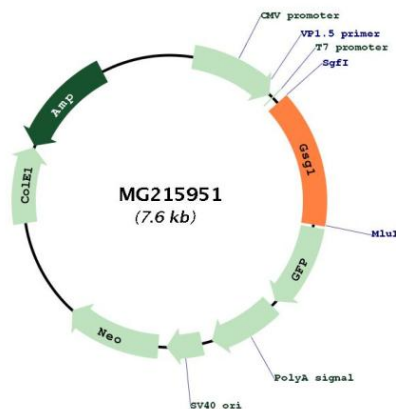
**Locus ID:** 14840

**UniProt ID:** [Q8RIW2](#)

**Cytogenetics:** 6 66.07 cM

**Gene Summary:** May cause the redistribution of PAPOLB from the cytosol to the endoplasmic reticulum. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG215951