

Product datasheet for **RG211591**

GSG1 (NM_001080554) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSG1 (NM_001080554) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211591 representing NM_001080554 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGATCCCTCTCAACTGACTCAAAATGTTTGCCCTACCCAGGAGATGGAGCTCTCGAAGGCCTTCT
CTGGCCAGCGGACACTCCTATCTGCCATCCTCAGCATGCTATCACTCAGCTTCTCCACAACATCCCTGCT
CAGCAACTACTGGTTTGTGGGCACACAGAAGGTGCCAAGCCCTGTGCGAGAAAGGTCTGGCAGCCAAG
TGCTTTGACATGCCAGTGTCCCTGGATGGAGATACCAACACATCCACCCAGGAGGTGGTACAATACAACT
GGGAGACTGGGGATGACCGTTCTCCTCCGGAGCTTCCGGAGTGGCATGTGGCTATCCTGTGAGGAAAC
TGTGGAAGAACCAGCACTGCTCCATCCCCAGTCTTGGAACAATTTAGAGCCCTTCGGTCCAGTGGTACA
GCGGCAGCAAAAGGGGAGAGGTGCCGAAGTTTCATTGAACTTACACCACCAGCCAAGAGAGGTGAGAAAG
GACTACTGGAATTTGCCACGTTGCAAGGCCCATGTCAACCCACTCTCCGATTTGGAGGGAAGCGTTGAT
GGAGAAGGCTTCCCTCCCTCCCTCCCTTGGGGCTTTGTGGCAAAAATCCTATGGTTATCCCTGGGAAC
GCAGATCACCTACATCGGACTTCAATTCATCAGCTTCTCCTGCTACTAACAGACTTGCTACTACTGGG
AACCTGCCTGTGGGCTCAAACAGCGCCTTTGCTGCTGTTTCTCTGCTCCTGTCAGGTCTCCTGGGA
TGGTGGCCACATGATGTATTCACAAGTCTTCAAGCGACTGTCAACTTGGGTCCAGAAGACTGGAGACC
ACATGTTTGGAATTATGGCTGGGCCTTCTACATGGCCTGGCTCTCCTTCACCTGCTGCATGGCGTCGGCT
GTCACCACCTTCAACACGTACACCAGGATGGTGTGGAGTTCAAGTGCAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211591 representing NM_001080554
 Red=Cloning site Green=Tags(s)

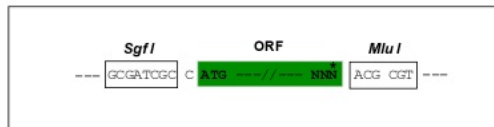
MSDPSQLTQNVCLTQEMELSKAFSGQRTLLSAILSMSLSFSSTTSLLSNYWFGTQKVPKPLCEKGLAAK
 CFDMPSVSLDGDNTSTQEVVQYNWETGDDRF SFRSFRSGMWLSCEETVEEPALLHPQSWKQFRALRSSGT
 AAKGERCRSFIELTPPAKRGEKGLLEFATLQGCHPTLRFGGKRLMEKASLPSPPLGLCGKNPMVIPGN
 ADHLHRTSIHQLPPATNRLATHWEPCLWAQTERLCCCFLCPVRSPGDGGPHDVF TSLP SDCQLGSRRL ET
 TCLELWLGLLHGLALLHLLHGVGCHHLQHVHQDGAGVQVQA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGAGATCTGCCGCCGATCGCCGGCGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -
 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT
 - - E E R V Stop

ACCN: NM_001080554

ORF Size: 963 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_001080554.4](#)

RefSeq Size: 2179 bp

RefSeq ORF: 966 bp

Locus ID: 83445

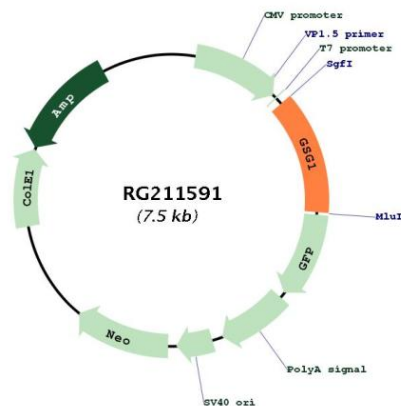
UniProt ID: [Q2KHT4](#)

Cytogenetics: 12p13.1

Protein Families: Transmembrane

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

Product images:



Circular map for RG211591