

Product datasheet for **SC315737**

GSG1 (NM_001080554) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSG1 (NM_001080554) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315737 representing NM_001080554. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGAGCGATCCCTCTCAACTGACTCAAAATGTTTGCCTCACCCAGGAGATGGAGCTCTCGAAGGCCTTC
TCTGGCCAGCGGACACTCCTATCTGCCATCCTCAGCATGTATCACTCAGCTTCTCCACAACATCCCTG
CTCAGCAACTACTGGTTTGTGGGCACACAGAAGGTGCCAAGCCCTGTGCGAGAAAGGTCTGGCAGCC
AAGTGCTTTGACATGCCAGTGTCCCTGGATGGAGATACCAACACATCCACCCAGGAGGTGGTACAATAC
AACTGGGAGACTGGGGATGACCGGTTCTCCTTCCGGAGCTTCCGGAGTGGCATGTGGCTATCCTGTGAG
GAAACTGTGGAAGAACCAGCACTGCTCCATCCCAAGTCCCTGGAAACAATTTAGAGCCCTTCGGTCCAGT
GGTACAGCGGCAGCAAAAGGGGAGAGGTGCCGAAGTTTCAATTGAACTTACACCACCAGCCAAAGAGAGGT
GAGAAAGGACTACTGGAATTTGCCACGTTGCAAGGCCATGTACCCCACTCTCCGATTTGGAGGGAAG
CGGTTGATGGAGAAGGCTTCCCTCCCCTCCCCTCCCTTGGGGCTTTGTGGCAAAAATCCTATGGTTATC
CCTGGGAACGCAGATCACCTACATCGGACTTCAATTCATCAGCTTCTCCTGCTACTAACAGACTTGCT
ACTCACTGGGAACCTGCCTGTGGGCTCAAAGTGGCCTTTGCTGCTGTTTCTCTGCTGCTGTCAGG
TCTCCTGGGGATGGTGGCCACATGATGTATTACAAGTCTTCCAAGGACTGTCAACTGGGTCCAGA
AGACTGGAGACCACATGTTTGAATTATGGCTGGCCTTCTACATGGCCTGGCTCTCCTTCACTGCTG
CATGGCGTGGCTGTACCACCTCAACACGTACACCAGGATGGTGTGGAGTTCAGTGAAGCATAG

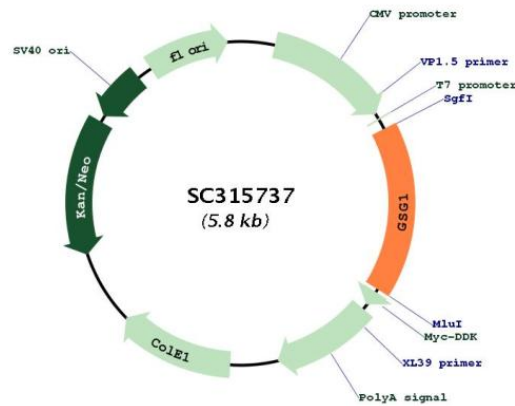
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001080554

Insert Size: 966 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001080554.2](#)

RefSeq Size: 2761 bp

RefSeq ORF: 966 bp

Locus ID: 83445

UniProt ID: [Q2KHT4](#)

Cytogenetics: 12p13.1

Protein Families: Transmembrane

MW: 35.4 kDa

Gene Summary: May cause the redistribution of PAPOLB from the cytosol to the endoplasmic reticulum.

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region, and includes an alternate in-frame exon in the central coding region, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is longer than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.