

## Product datasheet for **RC232355**

### **GSG1 (NM\_001206845) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GSG1 (NM_001206845) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GSG1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232355 representing NM_001206845 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCAAGATGGAGCTCTCGAAGGCCTTCTTGCCAGCGGACACTCCTATCTGCCATCCTCAGCATGC  
TATCACTCAGCTTCTCCACAACATCCCTGCTCAGCAACTACTGGTTTGTGGGCACACAGAAGGTGCCCAA  
GCCCCTGTGCGAGAAAGGTCTGGCAGCCAAGTGCTTTGACATGCCAGTGTCCCTGGATGGAGATACCAAC  
ACATCCACCCAGGAGGTGGTACAATACTGGGAGACTGGGGATGACCGTTCTCCTCCGGAGCTTCC  
GGAGTGGCATGTGGCTATCCTGTGAGGAACTGTGGAAGAACCAGGGGAGAGGTGCCGAAGTTTCATTGA  
ACTTACACCACCAGCCAAGAGAGGTCTCCTGGGATGGTGGCCACATGATGATTACAAAGTCTTCCAA  
GCGACTGTCAACTGGGTCCAGAAGACTGGAGACCACATGTTTGAATTATGGCTGGCCTTCTACATGG  
CCTGGCTCCTTACCTGCTGCATGGCGTGGCTGTCAACACGTACACCAGGATGGTGT  
GGAGTTCAAGTGAAGCATAGTAAGAGCTTCAAGGAAAACCCGAAGTGCCTACCACATCACCATCAGTGT  
TTCCCTCGGCGGCTGTCAAGTGCAGCCCCACCGTGGTCTTTGACCAGCTACCACAGTATCATAATC  
AGCCCATCCACTCTGTCTGAGGGAGTCGACTTCTACTCGAGCTGCGGAACAAGGATTTCAAAGAGG  
GGCCAGCCAGGAGCTGAAAGAAGCAGTTAGGTCATCTGTAGAGGAAGAGCAGTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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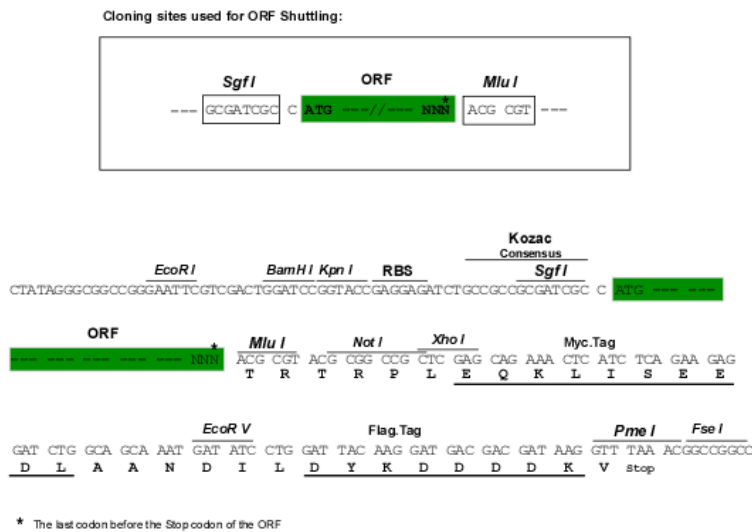
**Protein Sequence:** >RC232355 representing NM\_001206845  
 Red=Cloning site Green=Tags(s)

MAKMELSKAFSGQRTLLSAILSMLSLSFSTTLLSNYWFVGTQKVPKPLCEKGLAAKCFDMPVSLDGDNTN  
 TSTQEVVQYNWETGDDRF SFRSFRSGMWLSC EETVEEPGERCSFIELTPPAKRGLLGMVAHMMYSQVFQ  
 ATVNLGPEDWRPHVWNYGWAFYMAWLSFTCCMASAVTTFN TYTRMVLEFKCKHKSFKENPNCLPHHHQC  
 FPRRLSSAAPT VGPLTSYHQYHNQPIHSVSEGVDFYSELRNKGFQRGASQELKEAVRSSVEEEQC

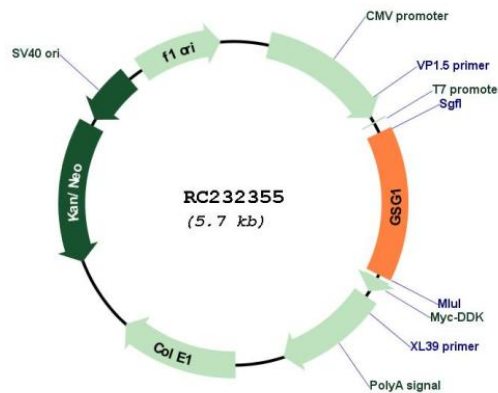
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001206845

**ORF Size:** 825 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_001206845.3</a>
<b>RefSeq Size:</b>	2391 bp
<b>RefSeq ORF:</b>	828 bp
<b>Locus ID:</b>	83445
<b>UniProt ID:</b>	<a href="#">Q2KHT4</a>
<b>Cytogenetics:</b>	12p13.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	31.8 kDa
<b>Gene Summary:</b>	May cause the redistribution of PAPOLB from the cytosol to the endoplasmic reticulum. [UniProtKB/Swiss-Prot Function]