

Product datasheet for **SC332387**

GUCY1A1 (NM_001256449) Human Untagged Clone

Product data:

| | |
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| Product Type: | Expression Plasmids |
| Product Name: | GUCY1A1 (NM_001256449) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | GUCY1A1 |
| Synonyms: | GC-S-alpha-1; GC-SA3; GCS-alpha-3; GUC1A3; GUCA3; GUCSA3; GUCY1A3; MYMY6 |
| Vector: | pCMV6-Entry (PS100001) |



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Fully Sequenced ORF: >SC332387 representing NM_001256449.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTTCTGCACGAAGCTCAAGGATCTCAAGATCACAGGAGAGTGTCTTTCTCCTTACTGGCACCAGGT
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CCATGCTTCCAAAAGAAAGATGTGGAAGATGGCAATGCCAATTTTTTAGGCAAAGCATCAGGAATAGAT
TAG
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001256449

Insert Size: 2073 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).

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_001256449.1](#)

RefSeq Size: 9291 bp

RefSeq ORF: 2073 bp

Locus ID: 2982

UniProt ID: [Q02108](#)

Cytogenetics: 4q32.1

Protein Families: Druggable Genome

Protein Pathways: Gap junction, Long-term depression, Purine metabolism, Vascular smooth muscle contraction

MW: 77.5 kDa

Gene Summary: Soluble guanylate cyclases are heterodimeric proteins that catalyze the conversion of GTP to 3',5'-cyclic GMP and pyrophosphate. The protein encoded by this gene is an alpha subunit of this complex and it interacts with a beta subunit to form the guanylate cyclase enzyme, which is activated by nitric oxide. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Transcript Variant: This variant (8) differs in the 5' UTR, compared to variant 1, and encodes isoform A. Variants 1, 2, 3, 4, and 8 all encode the same isoform (A). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.