

## Product datasheet for **SC332380**

### **GUCY1A2 (NM\_001256424) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GUCY1A2 (NM_001256424) Human Untagged Clone
Tag:	Tag Free
Symbol:	GUCY1A2
Synonyms:	GC-SA2; GUC1A2
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC332380 representing NM\_001256424.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCTCGAAGGAAGATTTCTGTCGAGTCTTCAGCTCCCTGGGCTCCGACTACCTGGAGACCAGCCCG
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CCAACCACTTACCAATTATTAACGAGAAGAAAGTTTACATTCATTCCGCGGTCTCGTGAAGAGCTT
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GAGACAAGCCTCTGA
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001256424

**Insert Size:** 2292 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).

<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_001256424.1</a>
<b>RefSeq Size:</b>	16233 bp
<b>RefSeq ORF:</b>	2292 bp
<b>Locus ID:</b>	2977
<b>UniProt ID:</b>	<a href="#">P33402</a>
<b>Cytogenetics:</b>	11q22.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Gap junction, Long-term depression, Purine metabolism, Vascular smooth muscle contraction
<b>MW:</b>	85.3 kDa
<b>Gene Summary:</b>	<p>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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). 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.</p>