

## Product datasheet for **SC325101**

### **GUCY1A1 (NM\_001130685) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GUCY1A1 (NM_001130685) Human Untagged Clone
Tag:	Tag Free
Symbol:	GUCY1A1
Synonyms:	GC-S-alpha-1; GC-SA3; GCS-alpha-3; GUC1A3; GUCA3; GUCSA3; GUCY1A3; MYMY6
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001130685, the custom clone sequence may differ by one or more nucleotides ATGCCTCCCTGCTTCCATAATGATTGCAGCGAGTTTGTGAATCAGCCCTACTTGTGTGAT TCCGTTACATGAAAAGCACCAAGCCATCCCTGTCCCCAGCAAACCCAGTCTCGCTG GTGATCCACATCGCTATTCTGCAAGACATTTCCATTCCATTTTCATGTTTGACAAAGAT ATGACAATTCTGCAATTTGGCAATGGCATCAGAAGGCTGATGAACAGGAGAGACTTTCAA GGAAAGCCTAATTTTGAAGAATACTTTGAAATTCTGACTCCAAAAATCAACCAGACGTTT AGCGGGATCATGACTATGTTGAATATGCAGTTTGTGTACGAGTGAGGAGATGGGACAAC TCTGTGAAAAAATCTTCAAGGGTTATGGACCTCAAAGGCCAAATGATCTACATTGTTGAA TCCAGTGAATCTGTTTTTGGGGTACCCTGTGTGGACAGATTAGAAGATTTTACAGGA CGAGGGCTCTACCTCTCAGACATCCCAATTCACAATGCACTGAGGGATGTGGTCTTAATA GGGGAACAAGCCCGAGCTCAAGATGGCCTGAAGAAGAGGCTGGGGAAGCTGAAGGCTACC CTTGAGCAAGCCCAAGCCCTGGAGGAGGAGAAGAAAAAGACAGTAGACCTTCTGTGC TCCATATTTCCCTGTGAGGTTGCTCAGCAGCTGTGGCAAGGGCAAGTTGTGCAAGCCAAG AAGTTCAGTAATGTCACCATGCTCTTCTCAGACATCGTTGGGTTCACTGCCATCTGCTCC CAGTGTCCACCGCTGCAGGTCATCACCATGCTCAATGCACTGTACTCGCTTCGACCAG CAGTGTGGAGAGCTGGATGTCTACAAGGTGGAGACCATTGGCGATGCCTATTGTGTAGCT GGGGGATTACACAAAGAGAGTGATACTCATGCTGTTTCCAGATAGCGCTGATGGCCCTGAAG ATGATGGAGCTCTCTGATGAAGTTATGTCTCCCCATGGAGAACCCTATCAAGATGCGAATT GGACTGCACTCTGGATCAGTTTTTGTGGCGTCGTTGGAGTTAAAATGCCCGTTACTGT CTTTTTGGAAACAATGCTACTCTGGCTAACAAATTTGAGTCTGCAGTGTACCACGAAAA ATCAATGTCAGCCCAACAACCTTACAGATTACTCAAAGACTGTCCTGGTTTCGTGTTTACC CCTCGATCAAGGGAGGAACCTCCACCAAACTCCCTAGTAAAATCCCCGGAATCTGCCAT TTTCTGGATGCTTACCAACAAGGAACAACTCAAACCATGCTTCCAAAAGAAAGATGTG GAAGATGGCAATGCCAATTTTTTAGGCAAAGCATCAGGAATAGAT
Restriction Sites:	Please inquire
ACCN:	NM_001130685
Insert Size:	9149 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<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>	<u>NM_001130685.1, NP_001124157.1</u>
<b>RefSeq Size:</b>	9149 bp
<b>RefSeq ORF:</b>	1368 bp
<b>Locus ID:</b>	2982
<b>Cytogenetics:</b>	4q32.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Gap junction, Long-term depression, Purine metabolism, Vascular smooth muscle contraction
<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. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (B) is shorter at the N-terminus compared to isoform A.</p> <p>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>