

Product datasheet for **SC325280**

GUCY1A1 (NM_001130682) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GUCY1A1 (NM_001130682) 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>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001130682, the custom clone sequence may differ by one or more nucleotides

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ATGTTCTGCACGAAGCTCAAGGATCTCAAGATCACAGGAGAGTGTCTTTCTCCTTACTG
GCACCAGGTCAAGTTCCTAACGAGTCTTCAGAGGAGGCAGCAGGAAGCTCAGAGAGCTGC
AAAGCAACCGTGCCCATCTGTCAAGACATTCTGAGAAGAACAACAAGAAAGTCTTCTCT
CAAAGAAAACCAGTCGGAGCCGAGTCTATCTTACACTTTGGCAGAGAGTATTTGCAAA
CTGATTTTCCCAGAGTTTGAACGGCTGAATGTTGCACTTCAGAGAACATTGGCAAAGCAC
AAAATAAAAGAAAAGCAGGAAATCTTTGGAAAGAGAAGACTTTGAAAAACAATTGCAGAG
CAAGCAGTTGCAGCAGGAGTTCCAGTGGAGTTATCAAAGAATCTCTTGGTGAAGAGGTT
TTTAAATATGTTACGAGGAAGATGAAAACATCCTTGGGGTGGTTGGAGGCACCCTTAA
GATTTTTTAAACAGCTTCAGTACCCTTCTGAAACAGAGCAGCCATTGCCAAGAAGCAGGA
AAAAGGGGCAGGCTTGAGGACGCCTCCATTCTATGCCTGGATAAGGAGGATGATTTTCTA
CATGTTTACTACTTCTCCCTAAGAGAACCACCTCCCTGATTCTTCCCGCATCATAAAG
GCAGCTGCTCACGTATTATGAAACGGAAGTGAAGTGTGTTAATGCCTCCCTGCTTC
CATAATGATTGCAGCGAGTTTGAATCAGCCCTACTTGTGTACTCCGTTCCACATGAAA
AGCACCAGCCATCCCTGTCCCCAGCAAACCCAGTCCCTCGCTGGTATTCCCACATCG
CTATTCTGCAAGACATTTCCATTCCATTTCATGTTTGACAAAGATATGACAATTCGCAA
TTTGGCAATGGCATCAGAAGGCTGATGAACAGGAGAGACTTTCAAGGAAAGCCTAATTTT
GAAGAATACTTTGAAATCTGACTCCAAAAATCAACCAGACGTTTAGCGGGATCATGACT
ATGTTGAATATGCAGTTTGTGTACGAGTGAGGAGATGGGACAACCTCTGTGAAAAATCT
TCAAGGGTTATGGACCTCAAAGGCCAAATGATCTACATTGTTGAATCCAGTGCAATCTTG
TTTTTGGGGTACCCTGTGTGGACAGATTAGAAGATTTTACAGGACGAGGGCTCTACCTC
TCAGACATCCCAATTCACAATGCACCTGAGGGATGTGGTCTTAATAGGGGAACAAGCCCGA
GCTCAAGATGGCCTGAAGAAGAGGCTGGGGAAGCTGAAGGCTACCCTTGAGCAAGCCAC
CAAGCCCTGGAGGAGGAGAAGAAAAGACAGTAGACCTTCTGTGCTCCATATTTCCCTGT
GAGGTTGCTCAGCAGCTGTGGCAAGGGCAAGTTGTGCAAGCCAAGAAGTTCAGTAATGTC
ACCATGCTCTTCTCAGACATCGTTGGGTTCACTGCCATCTGCTCCAGTGTCTCACCGCTG
CAGGTCATCACCATGCTCAATGCACTGTACACTCGCTTCGACCAGCAGTGTGGAGAGCTG
GATGTCTACAAGGTGGAGACCATTGGCGATGCCTATTGTGTAGCTGGGGATTACACAAA
GAGAGTGATACTCATGCTGTTTCCAGATAGCGCTGATGGCCCTGAAGATGATGGAGCTCTCT
GATGAAGTTATGTCTCCCATGGAGAACCTATCAAGATGCGAATTGGACTGCACTCTGGA
TCAGTTTTTGGCTGGCGTGTGGAGTTAAAATGCCCGTACTGTCTTTTGGAAACAAT
GTCACCTGGCTAACAAATTTGAGTCTGCAGTGTACCACGAAAAATCAATGTCAGCCCA
ACAACCTACAGATTACTCAAAGACTGTCCTGGTTTCGTGTTTACCCTCGATCAAGGGAG
GAACCTCCACCAAACCTCCCTAGTAAAATCCCGGAATCTGCCATTTTCTGGATGCTTAC
CAACAAGGAACAAACTCAAACCATGCTTCCAAAAGAAAGATGTGGAAGATGGCAATGCC
AATTTTTTAGGCAAAGCATCAGGAATAGAT
    
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Restriction Sites: Please inquire

ACCN: NM_001130682

Insert Size: 9360 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:	<ol style="list-style-type: none">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:	<u>NM_001130682.1</u> , <u>NP_001124154.1</u>
RefSeq Size:	9360 bp
RefSeq ORF:	9360 bp
Locus ID:	2982
UniProt ID:	<u>Q02108</u>
Cytogenetics:	4q32.1
Protein Families:	Druggable Genome
Protein Pathways:	Gap junction, Long-term depression, Purine metabolism, Vascular smooth muscle contraction
Gene Summary:	<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 (2) 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.</p>