

## Product datasheet for SC303040

### GUCY2F (NM\_001522) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GUCY2F (NM_001522) Human Untagged Clone
Tag:	Tag Free
Symbol:	GUCY2F
Synonyms:	CYGF; GC-F; GUC2DL; GUC2F; RETGC-2; ROS-GC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001522 edited  
 ATGTTCCCTGGGACTCGGGCGCTTTTCTCGCCTTGTCTCTGGTTTGC GGCTTTCAGGAAA  
 CTGCTGGGACACCATGGCCTTGCATCTGCCAAGTTCCTGTGGTGTGTGCCTTCTGTCT  
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 TGGGCTTGTGATTGCTGTTTTCAAAGGCCCTGCCTGAGGTTGCTGCGGATTAGCCATT  
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 AGCTGGGACAAAGGAATTTCTCTTGGGCTTGTGTGAATTATGAATTAGACAATAAAATT  
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CAAGTGGGCCATGGCCTGCAACCAGTGGAGATTGCAGCCTTCAAAGAAGAAAAGCAGAA
AGGCAGTTGGTGAGAAACAAGCCATAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001522
- Insert Size:** 3500 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:** ORF matches with reference.
- 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_001522.1</a> , <a href="#">NP_001513.1</a>
<b>RefSeq Size:</b>	3723 bp
<b>RefSeq ORF:</b>	3327 bp
<b>Locus ID:</b>	2986
<b>UniProt ID:</b>	<a href="#">P51841</a>
<b>Cytogenetics:</b>	Xq22.3-q23
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Purine metabolism
<b>Gene Summary:</b>	The protein encoded by this gene is a guanylyl cyclase found predominantly in photoreceptors in the retina. The encoded protein is thought to be involved in resynthesis of cGMP after light activation of the visual signal transduction cascade, allowing a return to the dark state. This protein is a single-pass type I membrane protein. Defects in this gene may be a cause of X-linked retinitis pigmentosa. [provided by RefSeq, Dec 2008]