

Product datasheet for **SC303119**

GCAP2 (GUCA1B) (NM_002098) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCAP2 (GUCA1B) (NM_002098) Human Untagged Clone
Tag:	Tag Free
Symbol:	GCAP2
Synonyms:	GCAP 2; GCAP2; GUCA2; RP48
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002098 edited CTCAGGGCTAGCATGGGGCAGGAGTTTAGCTGGGAGGAGGCGGAGGCAGCTGGCGAGATA GATGTGGCGGAGCTCCAGGAGTGGTACAAGAAGTTTGTGATGGAGTGCCCCAGCGGCACA CTCTTTATGCATGAGTTTAAGCGCTTCTTCAAGGTCACAGACGATGAGGAGGCCTCCCAG TATGTAGAGGGCATGTTCCGAGCCTTCGACAAGAATGGGACAACACCATCGACTTCCTG GAGTACGTGGCAGCTCTGAATCTCGTGCTGAGGGGCACCTGGAGCACAAGCTGAAGTGG ACATTC AAGATCTATGATAAGGATGGCAATGGCTGCATCGACCGCTGGAGCTACTCAAC ATTGTGGAGGGAATTTACCAGCTGAAGAAAGCCTGCCGGCGAGAGCTACAACTGAGCAA GGCCAGCTGCTCACACCCGAGGAGGTCGTGGACAGGATCTTCTCCTGGTGGATGAGAAT GGAGATGGCCAGCTGTCTCTGAACGAGTTTGTGAAGGTGCCCGTCGGGACAAGTGGGTG ATGAAGATGCTGCAGATGGACATGAATCCCAGCAGCTGGCTCGCTCAGCAGAGACGGAAA AGTGCCATGTTCTGA
Restriction Sites:	Please inquire
ACCN:	NM_002098
Insert Size:	650 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.



[View online »](#)

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_002098.3, NP_002089.3</u>
RefSeq Size:	2288 bp
RefSeq ORF:	603 bp
Locus ID:	2979
UniProt ID:	<u>Q9UMX6</u>
Cytogenetics:	6p21.1
Protein Families:	Druggable Genome
Protein Pathways:	Olfactory transduction
Gene Summary:	The protein encoded by this gene is a calcium-binding protein that activates photoreceptor guanylate cyclases. This gene may have arisen due to a gene duplication event since there is a highly similar gene clustered with it on chromosome 6. Mutations in this gene can cause a form of retinitis pigmentosa. [provided by RefSeq, Nov 2009]