

## Product datasheet for **MC201486**

### **Guca1a (NM\_008189) Mouse Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	Guca1a (NM_008189) Mouse Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	Guca1a
<b>Synonyms:</b>	GC-A; Gcap1; Guca; Guca1; mGCA; mGCAP1
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	PCMV6-Kan/Neo (PCMV6KN)
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)
<b>Fully Sequenced ORF:</b>	>BC026834 sequence for NM_008189 GAGTTACGGCCGGCTCATCTCCCTTTTTAGTCCGACTCACAGGGCTGTCTTTGTTTAGGCTGGTATAGG GGAGGTCCCGAAGCCAAGCCACCCTTGTGCAGGGGACATTAGAAAATAAGATCTACTGTCCATCTAGGG CATCCGTCTCTTGTGAGCCTGGACCATGGGCAACATCATGGAGGGCAAGTCCGTGGAAGAGCTGAGCAGC ACCGAGTGCCATCAGTGGTATAAGAAATTTATGACGGAGTGCCCATCTGGCCAGCTCACCTCTACGAAT TCCGCCAGTTCTTTGGTCTCAAGAACCTGAGCCCTCAGCCAGCCAGTATGTGGAACAGATGTTTCGAGAC CTTTGACTTCAACAAGGATGGCTACATTGACTTTCATGGAGTACGTGGCAGCCCTCAGCCTGGTCTCAAG GGCAAAGTGGAACAGAAGTTGCGCTGGTATTTCAAGCTCTACGACGTCGACGGCAACGGGTGCATAGACA GGGACGAGCTGCTCACCATCATCCGGGCCATCCGAACATTAATCCCTGGAGCGACTCATCCATGAGTGC CGAGGAATTCACAGATACCGTGTGGCCAAAGATCGACATCAACGGGGATGGGAAGCTGTCCTGGAGGAG TTCATGGAAGGTGTGCAGAAGGACCAGATGCTCCTGGACACGCTGACCCGAAGCCTGGACTTGACC GGCA TCGTGCGCAGACTCCAGAACGGCGAACACGAGGAGGCAGGCACCGCGACCTGGCAGCGGAGGCTGCGGG TTGAGCATTACCTGTGGCTTCTGCTGCTGAGGGCTGGCCCCGTGCGGTGCCTGGTGTGGTTGTTCTG TTCTTGCTTAACATTACATAGAACCTCCTGAAA AAAAAA
<b>Restriction Sites:</b>	RsrII-NotI
<b>ACCN:</b>	NM_008189
<b>Insert Size:</b>	609 bp
<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>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).



**Reconstitution Method:**

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:** [BC026834](#), [AAH26834](#)

**RefSeq Size:** 917 bp

**RefSeq ORF:** 609 bp

**Locus ID:** 14913

**UniProt ID:** [P43081](#)

**Cytogenetics:** 17 C

**Gene Summary:** This gene encodes a calcium-binding photoreceptor protein. The encoded protein may be involved in modulation of guanylyl cyclase activity, and in turn, the mammalian cone phototransduction cascade. Disruption of this gene results in the retinal degeneration associated with cone dystrophy. [provided by RefSeq, Dec 2015]