

Product datasheet for **MC201675**

Guca1b (NM_146079) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Guca1b (NM_146079) Mouse Untagged Clone
Tag: Tag Free
Symbol: Guca1b
Synonyms: BC018258; GCAP2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC029661 sequence for NM_146079
 GAGGACTTGGAGGAGGTAGCGGGCTGGCTGAGTCTTTCTAAAAGCCGGGATGGGGCAGCAGCTGAGC
 TGGGAAGAGGCGGAGGCCGCGGGGAGATGGATGTGGCGAGTTGCAGGAGTGGTACAAGAAGTTTGTCCG
 TGGAGTGTCCCAGTGGGACGCTTTCATGCACGAGTTCAAGCGCTTCTCAAGGTCACGGCAATGAGGA
 GGCCAGCCAGTATGTAGAGAGCATGTTCCGAGCCTTCGACAAGAATGGGGACAACACCATTGACTTCCTG
 GAGTATGTGGCAGCCCTGAACCTCGTGCTGAGGGGCAGCCTGGAACACAAGCTCAAGTGGACCTTCAAGA
 TCTATGACAAGGACCGAAATGGCTGCATCGACCGCCTGGAACCTCTGGACATTGTGGAGGCGATTACAA
 GCTGAAGAAAGCCTGCCGAGCGGAGCTGGATCTGGAACACCAGGGCCAGCTGCTCACGCCGAGGAGGTG
 GTGGACAGGATCTTCTCCTGGTGGACGAGAATGGAGACGGCCAGCTGTCTTGACCGAGTTCATCGAGG
 GCGCCCGTCGCGATAAGTGGTAATGAAGATGCTACAAATGGATATCAACCCAGGCTGCTGGATCACGCA
 GCAGAGGCGGAGAAGCGCCATGTTCTGAGAGCCCAGGGACCCTTCAGGGGCCACACTCCCCTCCAAGAC
 TCCTCCAGGGTCCCCGAGTTACATAGCAGGAGTCTTGTGGCTGAAGCCTGTTCCCGGTTGGTGTGGA
 CTTCGCAAGGGGCCAAGCAATGGCTGCTGGATCTGAAGTGGGGTTCAAGTCAAGTCTTCTTTCAGGATTC
 ACTAGCATTGTAGGGGTCGCCGACGTTACTCTGCTCCACTGCTGCTCCTGGGAGAACTGGGCTTAACTGG
 GAGATGTGGGGATCCTACTAATCTTCAGCGGTTCTCAGAGGAAATGGGGCCGGCAGGGGGCGGGCAAAAG
 GCTGGTAGAACGCAGTCTGAAAAGAAAGCAAGGATGGGGAAGGATCATAACGACCCAGTCCAACCAACT
 GAGCACCGGCTGGGGAGGACTCTGCCAGCTCCTCCCCAGGATGTGCTCACCAAGGATGACAAAGGGGAG
 GGCTACCTCCGTGATCTTCCGCCCTTAGAGGCCGCGGGGCTTAGGTGGGATGTTTCAGGTCTGCTCGG
 TGTGCTCCCCAGTCTTCTTCTCATCCCGTCTAGTGTGAGCCTGCTACCATTTCCATGCCTCCTCA
 AGGATGGAGACGCTTCTCTGCATCTCTGGGTAACCTGGCATTGGAATTCAGGCCAGACTTTGCCTCC
 GACAGCTGTTGGACTCCCTAACCTCCTGCAGGTCGACTAGATGGCTTCCAGTTATCCCGCAAATGCCTT
 CATGCACCCAATATAGAAGCTAGGCTACCAGGAACTCTCTGCCTTTCTCTGCCTCCTTCCATCTGTGC
 AGCTGGGGAAGTCACCTCAGAGGACAGGAAGTAGGACCAGTGTACACTAAGTAGGACCAGTGTACACT
 TGGCAAATTCATCTGGAACCTGGTGGATTGTTGGTGTACCTTGAATAGATATAGATTTACATTA
 TACAGTCAACTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI



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ACCN:	NM_146079
Insert Size:	606 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).
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>BC029661</u> , <u>AAH29661</u>
RefSeq Size:	1642 bp
RefSeq ORF:	606 bp
Locus ID:	107477
UniProt ID:	<u>Q8VBV8</u>
Cytogenetics:	17 C
Gene Summary:	Stimulates guanylyl cyclase 1 (GC1) and GC2 when free calcium ions concentration is low, and GC1 and GC2 when free calcium ions concentration is elevated. This Ca(2+)-sensitive regulation of GC is a key event in recovery of the dark state of rod photoreceptors following light exposure (By similarity).[UniProtKB/Swiss-Prot Function]