

Product datasheet for **MR202081**

Guca1a (NM_008189) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Guca1a (NM_008189) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Guca1a
Synonyms: GC-A; Gcap1; Guca; Guca1; mGCA; mGCAP1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR202081 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGCAACATCATGGAGGGCAAGTCCGTGGAAGAGCTGAGCAGCACCGAGTGCCATCAGTGGTATAAGA
AATTTATGACGGAGTGCCATCTGGCCAGCTCACCTCTACGAATCCGCCAGTTCTTTGGTCTCAAGAA
CCTGAGCCCTCAGCCAGCCAGTATGTGGAACAGATGTTTCGAGACCTTTGACTTCAACAAGGATGGCTAC
ATTGACTTCATGGAGTAGTGGCAGCCCTCAGCCTGGTCTCAAGGGCAAAGTGGAAACAGAAGTTGCGCT
GGTATTTCAAGCTCTACGACGTCGACGGCAACGGGTGCATAGACAGGGACGAGCTGCTCACCATCATCCG
GGCCATCCGAACCATTAATCCCTGGAGCGACTCATCCATGAGTGCCGAGGAATTCACAGATACCGTGTTT
GCCAAGATCGACATCAACGGGGATGGGGAAGTGTCCCTGGAGGAGTTCATGGAAGGTGTGCAGAAGGACC
AGATGCTCCTGGACACGCTGACCCGAAGCCTGGACTTGACCGGCATCGTGCGCAGACTCCAGAACGGCGA
ACACGAGGAGGCAGGCACCGCGACCTGGCAGCGGAGGCTGCGGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202081 protein sequence
Red=Cloning site Green=Tags(s)

MGNIMEGKSVEELSSTECHQWYKFMTECPGQLTLYEFRQFFGLKNLSPSASQYVEQMFETFDNKG
IDFMEYVAALSLVLKGVKQKLRWYFKLYDVGNGCIDRDELLTIIRAIRTINPWSOSSMSAEFTDVF
AKIDINGDGELESLEEFMEGVQKQMLLDLTLRSLDLTGI VRRRLQNGEHEEAGTGD LAEEAAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

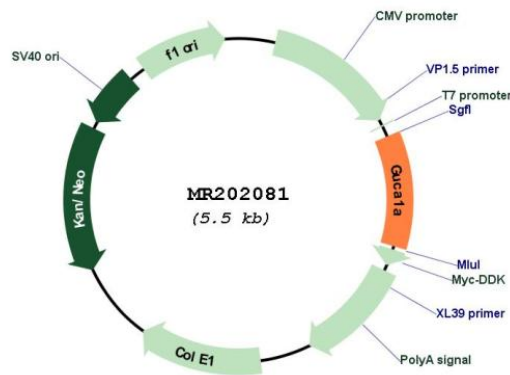


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_008189

ORF Size: 609 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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: [NM_008189.3](#)

RefSeq Size: 917 bp

RefSeq ORF: 609 bp

Locus ID: 14913

UniProt ID: [P43081](#)

Cytogenetics: 17 C

MW: 23 kDa

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]