

## Product datasheet for **MR200499**

### Guca2a (NM\_008190) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Guca2a (NM\_008190) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Guca2a  
**Synonyms:** Guca2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200499 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATGCCTGTGTGCTCTCTGTGCTGTGCCTCCTGGGTGCCTTGGCTGTCCTGGTAGAAGGGGTCCTG  
TGCAGGATGGAGACCTCTCCTTCTCTGGAGTCAGTGAAAACTTAAGGGTCTCCGCGAGGTACAGGA  
GCCAGACTGGTGAAGTACAAGAAGTTTGTCCCCGGCTTCTCAGCCCGTGGCACCACAGCTATGTAGT  
AGCCACTCTGACTTCCAGAAGCACTGAGGCCGGTCTGCGAGAAACCAACGCCGAGGAGATCCTGCAGA  
GGCTAGAGGCCATTGCTCAGGACCAACACATGTGAGATCTGTGCTACGCTGCCTGTACGGGATGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200499 protein sequence  
Red=Cloning site Green=Tags(s)  
MNA CVLSVLCLL GALAVLVEGVTVQDGLSFPLESVKCLKGLREVQEPRLVSHKKFAPRLLQPVAPQLCS  
SHSALPEALRPVCEKPNAAEILQRLEAIAQDPNTCEICAYA AACTGC

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_008190

ORF Size: 351 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.

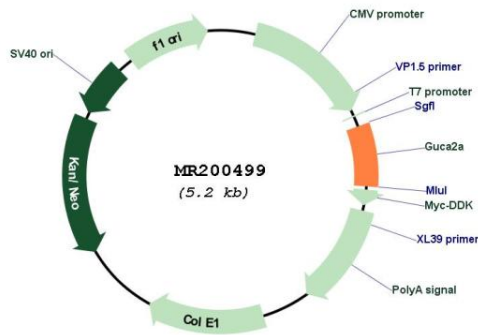
RefSeq: [NM\\_008190.1](#), [NP\\_032216.1](#)

RefSeq Size: 560 bp

RefSeq ORF: 351 bp

**Locus ID:** 14915  
**UniProt ID:** [P33680](#)  
**Cytogenetics:** 4 55.47 cM  
**MW:** 12.5 kDa  
**Gene Summary:** Endogenous activator of intestinal guanylate cyclase. It stimulates this enzyme through the same receptor binding region as the heat-stable enterotoxins.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR200499