

## Product datasheet for **MR200368**

### Guca2b (NM\_008191) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Guca2b (NM\_008191) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Guca2b  
**Synonyms:** AV066530; Gca; Gcap2; Ugn; urog  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200368 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCAAGAAGCCAACACTGTGGGCTGCCGTCGTCTGCTGCTCCTGCAGAGTGCACAGGGTGTCTACA  
 TCAAGTACCATGGCTTCCAAGTCCAGCTGGAATCAGTGAAGAAGCTGAATGAGTTGGAGGAGAAGGAGAT  
 GTCCAATCCCCAGCCGCGGAGAAGTGGCCTCCTCCTGCTGTGTGCCATAACCCAGCCTTGCCTTGGAC  
 CTCCAGCCTGTTTGTGCCTCCAGGAAGCTGCCAGCACCTCAAGGCCTTGAGGACCATCGCCACCGACG  
 AATGTGAAGTGTATAAATGTTGCCTGTACAGGCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200368 protein sequence  
 Red=Cloning site Green=Tags(s)  
 MSRSQLWAAVVLLLLLQSAQGVYIKYHGFQVQLESVKKLENEEKEMSNPQPRRSGLLPAVCHNPALPLD  
 LQPVCASQEAASTFKALRTIATDECELCINVACTGC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_008191

ORF Size: 321 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\\_008191.1](#), [NM\\_008191.2](#), [NP\\_032217.1](#)

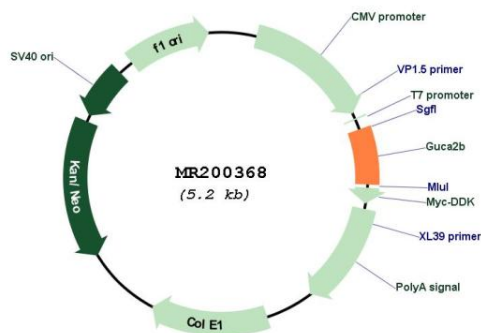
RefSeq Size: 602 bp

RefSeq ORF: 321 bp

**Locus ID:** 14916  
**UniProt ID:** [O09051](#)  
**Cytogenetics:** 4 55.48 cM  
**MW:** 11.6 kDa

**Gene Summary:** This gene encodes a member of the guanylin family and preproprotein that is proteolytically processed to generate a mature protein product. The mature protein product, known as uroguanylin, is an endogenous ligand for the guanylate cyclase-C receptor and may regulate salt and water homeostasis in the intestine and kidneys. Homozygous knockout mice for this gene exhibit impaired sodium chloride excretion and elevated arterial pressure. This gene is present in a gene cluster with a related guanylin family member on chromosome 4. [provided by RefSeq, Sep 2015]

### Product images:



Circular map for MR200368