

## Product datasheet for **MG200368**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Guca2b (NM\_008191) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Guca2b  
**Synonyms:** AV066530; Gca; Gcap2; Ugn; urog  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200368 representing NM\_008191  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCAAGAAGCCAACACTGTGGGCTGCCGTCGTCCTGCTGCTCCTGCAGAGTGCACAGGGTGTCTACA  
TCAAGTACCATGGCTTCCAAGTCCAGCTGGAATCAGTGAAGAAGCTGAATGAGTTGGAGGAGAAGGAGAT  
GTCCAATCCCCAGCCGCGGAGAAGTGGCCTCCTCCCTGCTGTGTGCCATAACCCAGCCTTGCCTTGGAC  
CTCCAGCCTGTTTGTGCCTCCAGGAAGCTGCCAGCACCTCAAGGCCTTGAGGACCATCGCCACCGAGC  
AATGTGAAGTGTATAAATGTTGCCTGTACAGGCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200368 representing NM\_008191  
Red=Cloning site Green=Tags(s)  
MSRSQLWAAVVLQSAQGVYIKYHGFVQLESVKKLEEKEMSNPQPRRSGLLPAVCHNPALPLD  
LQPVCASQEAASFALRTIATDECELCINVACTGC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_008191.1</a></u> , <u><a href="#">NP_032217.1</a></u>
<b>RefSeq Size:</b>	590 bp
<b>RefSeq ORF:</b>	321 bp
<b>Locus ID:</b>	14916
<b>UniProt ID:</b>	<u><a href="#">O09051</a></u>
<b>Cytogenetics:</b>	4 55.48 cM
<b>Gene Summary:</b>	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]