

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 Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG200368 representing NM_008191

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCAAGAAGCCAACTGTGGGCTGCCGTCCTGCTGCTGCTCCTGCAGAGTGCACAGGGTGTCTACA
TCAAGTACCATGGCTTCCAAGTCCAGCTGGAATCAGTGAAGAAGCTGAATGAGTTGGAGGAGAAGGAGAT
GTCCAATCCCCAGCCGCGGAGAAGTGGCCTCCTCCCTGCTGTGTGCCATAACCCAGCCTTGCCCTTGGAC
CTCCAGCCTGTTTGTGCCTCCCAGGAAGCTGCCAGCACCTTCAAGGCCTTGAGGACCATCGCCACCGACC

AATGTGAACTGTGTATAAATGTTGCCTGTACAGGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200368 representing NM_008191

Red=Cloning site Green=Tags(s)

MSRSQLWAAVVLLLLLQSAQGVYIKYHGFQVQLESVKKLNELEEKEMSNPQPRRSGLLPAVCHNPALPLD

LQPVCASQEAASTFKALRTIATDECELCINVACTGC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



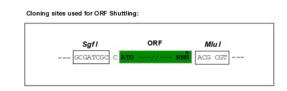
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

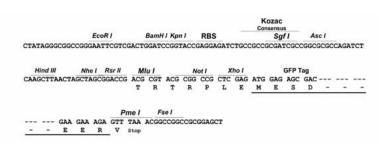
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

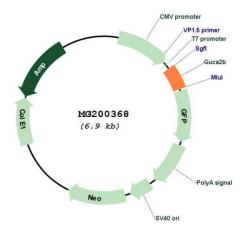


Cloning Scheme:





Plasmid Map:



ACCN: NM_008191 **ORF Size:** 318 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. <u>More info</u>

Guca2b (NM_008191) Mouse Tagged ORF Clone - MG200368

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: <u>NM 008191.1</u>, <u>NP 032217.1</u>

 RefSeq Size:
 590 bp

 RefSeq ORF:
 321 bp

 Locus ID:
 14916

 UniProt ID:
 009051

 Cytogenetics:
 4 55.48 cM

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]