

## Product datasheet for **RG217195**

### Guanylin (GUCA2A) (NM\_033553) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Guanylin (GUCA2A) (NM\_033553) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** GUCA2A  
**Synonyms:** GCAP-I; GUCA2; STARA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG217195 representing NM\_033553  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAATGCCTTCCTGCTCTCCGCACTGTGCCTCCTGGGGCCTGGGCCGCTTGGCAGGAGGGGTACCCG  
 TGCAGGATGAAATTTCTCCTTTCTCTGGAGTCAGTGAAGAAGCTCAAAGACCTCCAGGAGCCCCAGGA  
 GCCCAGGGTTGGGAACTCAGGAACCTTGCACCCATCCCTGGTGAACCTGTGGTCCCATCCTCTGTAGC  
 AACCCGAACCTTCCAGAAGAACTCAAGCCTCTCTGCAAGGAGCCCAATGCCCAGGAGATACTTCAGAGGC  
 TGGAGGAAATCGCTGAGGACCCGGGCACATGTGAAATCTGTGCCTACGCTGCCTGTACCGGATGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG217195 representing NM\_033553  
 Red=Cloning site Green=Tags(s)  
 MNAFLLSALCLLGAWAALAGGVTVDGNFSFSLESVKKLDLQEPQEPVKGKLRNFAPIPGEPVVPILCS  
 NPNFPEELKPLCKEPAQEILQRLEEIAEDPGTCEICAYAACTGC

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

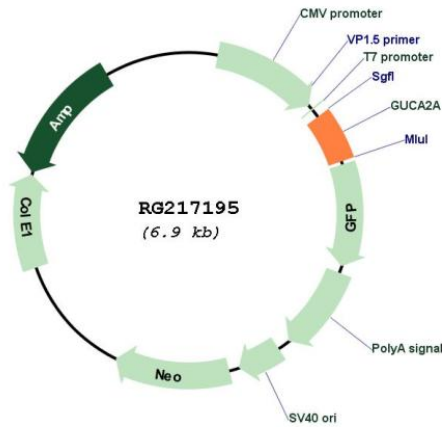


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_033553

ORF Size: 345 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](#)

<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>	<a href="#">NM_033553.3</a>
<b>RefSeq Size:</b>	575 bp
<b>RefSeq ORF:</b>	348 bp
<b>Locus ID:</b>	2980
<b>UniProt ID:</b>	<a href="#">Q02747</a>
<b>Cytogenetics:</b>	1p34.2
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Gene Summary:</b>	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]