

Product datasheet for **RR202610**

Guca2a (NM_013118) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Guca2a (NM_013118) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Guca2a
Synonyms: GUANYL; Guanylin; Guca2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR202610 representing NM_013118
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAATGCCTGGTTGCTGTCTGTGCTGTGCCTCCTGGTGCCTTGCTGTCTGGTAGAAGGGTCACTG
TGCAGGATGGAGACCTTTCCTTCTCTGGAGTCAGTAAACAACCTAAGCACCTCCGGGAAGTACAGGA
GCCACACTGATGAGTCAACAAGAAGTTTGTCTCAGGCTCCGAAGCCTGTGGCACCAGAGCTATGTAGC
CAATCTGCATTTCCAGAAGCACTGAGGCCCTCTGCGAGAAACCAACGCCGAGGAGATCCTGCAGAGGC
TAGAGGCCATTGCTCAGGACCAACACATGTGAAATCTGTGCCTATGCTGCCTGCACGGGATGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202610 representing NM_013118
Red=Cloning site Green=Tags(s)

MNAWLLSVLCLL GALAVLVEGVTVQDGLSFPLESVKQLKHLREVQEP TLM SHKKFALRLPKVAP ELC S
QSAFPEALRPLCEKPN AEEILQRLEAIAQDPNTCEICAYA AACTGC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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_013118.1</u> , <u>NP_037250.1</u>
RefSeq Size:	567 bp
RefSeq ORF:	348 bp
Locus ID:	25656
UniProt ID:	<u>P28902</u>
Cytogenetics:	5q36
MW:	12.6 kDa
Gene Summary:	activated peptide mediates increase in cGMP; may act as a ligand for guanylyl cyclase C [RGD, Feb 2006]