

## Product datasheet for **MR210068**

### **Gucy1a1 (NM\_021896) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gucy1a1 (NM_021896) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gucy1a1
Synonyms:	1200016O07Rik; sGC-alpha1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR210068 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTCTGCAGGAAGTTCAAGGATCTCAAGATCACAGGGGAGTGTCTTTCTCCTTACTGGCCCCTGGTC  
 AGGTTCC**T**AAGGAGCCAACAGAGAGGTGGCTGGAGGCTCTGAGGGCTGCCAGGCTACTCTGCCATCTG  
 CCAGTACTTTCTGAGAAGAATGCAAGAAGGAGTCTCCCCAAAGAAAGACAAGCCGAACAGAGTCTAC  
 CTGCACACCCTGGCAGAGAGTATTTGCAAGCTCATCTCCAGAGTGTGAGCGACTGAACCTTGCACCTC  
 AGAGAACCTTGGCAAAACATAAAATAGAAGAAAACAGGAAATCTTCAGAAAAAGAAGACCTTGAAAAAT  
 AATCGCAGAAGAAGCAATTGCAGCAGGTGCCCGAGTGGAGGCGCTCAAAGACTCTCTGGCGGAGGAGCTG  
 TTCAAGATCTGCTATGAGGAAGATGAGCACATTTTGGGCGTGGTTGGCGGCACCCTGAAGGACTTTCTAA  
 ATAGTTCAGCACGCTCCTCAAGCAGAGCAGCCACTGCCAAGAGGCGGAGAGCGGGGACGACTGGAAGA  
 TGCTCCATCTTATGCC**TGGACAAGGACCAGGACTTTCTAAATGTTTACTACTTCTCCCGAAGAGAACC**  
 ACAGCCCTGCTTCTCCCTGGTATCATTAAAGCGGCTGCTCGCATACTGTACGAAAGCCACGTTGGAGGTG  
 CCCTGATGCCCTCCTGCTTCCGAAGTACTGTACCGAGTTTGTGAACCAGCCCTATTTGCTCTACTCCGT  
 TCATGTGAAGAGCACCAAGCCGTCCTGTCCCCAGGCAAGCCCCAGTCTCGCTAGTGATCCCCGCTTCG  
 CTCTTCTGCAAGACTTTCCCGTTCATTTATGCTGGACCGAGACCTGGCCATCCTGCAGCTGGGTAACG  
 GCATCAGAAGGCTGGTGAACAAGAGGGACTTCCAAGGGAAAGCCCAACTTTGAAGATTTCTTTGAAATTTCT  
 AACTCCAAAAATCAACCAGACATTTAGTGGCATCATGACAATGTTGAACATGCAGTTTGCATCCGGGTG  
 AGGAGATGGGATAACTCGGTGAAGAAATCGTCAAGGGTTATGGATCTCAAAGGTCAAATGATCTACATCG  
 TTGAATCCAGTGCCATCTTGTCTTAGGGTCACCATGTGTGGACAGGCTGGAAGATTTACAGGACGGGG  
 GCTCTATCTGTCGACATCCCAATTCATAACGCCCTGAGGGATGTTGTCTTGATAGGGGAGCAGGCACGG  
 GCTCAAGATGGCCTCAAGAAGAGTTGGGGAAGCTGAAGGCAACCCTGGAGCATGCCACCAAGCCCTGG  
 AGGAGGAGAAGAAGAGGACAGTGGATCTGCTGTGCTCTATCTTCCCTCTGAGGTTGCTCAGCAGCTGTG  
 GCAAGGACAAATTTGTGCAAGCCAAGAAATTCAGCGAGGTCACCATGCTTTTCTCAGATATCGTAGGGTTC  
 ACTGCTATCTGCTCTCAGTGTTCACCTCTGCAGGTCATCACGATGCTCAACGCTCTCTACACTCGTTTTG  
 ACCAGCAGTGTGGAGAGCTGGATGTCTACAAGGTGGAGACCATCGGGGATGCATATTGTGTGGCAGGTGG  
 ATTGCACAGAGAGAGTGACACCCATGCTGTCCAGATAGCACTGATGGCCCTGAAGATGATGGAGCTCTCC  
 AATGAGGTCATGTCTCCACGGAACCTATCAAGATGCGAATTGGACTACATTCTGGATCAGTGTGTTG  
 CTGGAGTTGTTCGAGTGAAGATGCCCGGTATTGCCTGTTTGGAAACAATGCTCACTCTGGCTAACAAATT  
 TGAATCCTGCAGTGTGCCTCGGAAAATCAATGTCAGCCCCACCACATACAGGTTACTCAAAGACTGTCTC  
 GGCTTTGTGTTACCCCGAGATCAAGGGAGGAGCTTCCACCAAATTCCTAGTGACATTCTGGGATCT  
 GTCACCTTCTGGATGCTTATCACCATCAAGGACCTAATTCCAAACCATGGTTCCAGGATAAAGATGTGGA  
 AGATGGAACGCCAACTTCTTAGGCAAAGCGTCAGGGATAGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210068 protein sequence  
Red=Cloning site Green=Tags(s)

MFCRKFKDLKITGECPFSLAPGQVPKEPTEEVAGGSEGCQATLPICQYFPEKNAEGSLPQRKTSRNRVY  
 LHTLAESICKLIFPECERLNALQRTLAKHKIEENRKSSEKEDLEKIIAEEAIAAGAPVEALKDLSGEL  
 FKICYEEDHILGVVGGTLKDFLNSFSTLLKQSSHQEAERRRGRLEDASILCLDKDQDFLNYYYYFPKRT  
 TALLLPGIKAAAARILYESHVEVSLMPPCFRSDCTEFVNQPYLLYSVHVKSTKPSLSPGKPKQSSLVIPAS  
 LFCKTFPFHFMLDRDLAILQLGNIRRLVNRDFQGKPNFEFFFEILTPKINQTFSGIMTMLNMQFVIRV  
 RRWDNSVKSSRVMDLKGQMIYIVESSAILFLGSPCVDRLEDFTGRGLYLSDIPIHNALRDVVLIGEVAR  
 AQDGLKKRLGKLEHAHQALEEEKRTVDLLCSIFPSEVAQQLWQQQIVQAKKFSEVTMLFSDIVGF  
 TAICSQCSPLQVITMLNALYTRFDQQCGELDVYK VETIGDAYCVAGGLHRES DTHAVQIALMALKMMELS  
 NEVMSPHGEPIKMRIGLHSGSVFAGVVGKMPRYCLFGNNVTLANKFESCSVPRKINVSPTTYRLLKDCP  
 GFVFTPRSREELPPNFSDIPGICHFLDAYHHQGPNSKPWFQDKDVEDGNANFLGKASGID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021896

**ORF Size:** 2076 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\\_021896.3](#)

**RefSeq Size:** 4671 bp

**RefSeq ORF:** 2076 bp

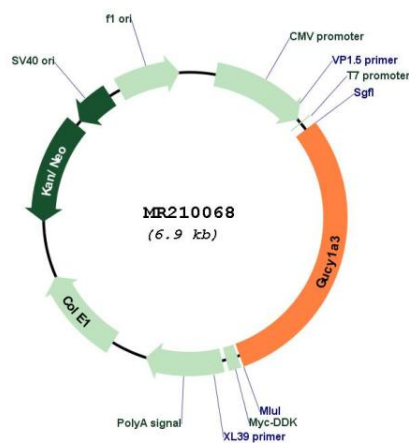
**Locus ID:** 60596

**UniProt ID:** [Q9ERL9](#)

**Cytogenetics:** 3 E3

**MW:** 77.6 kDa

**Product images:**



Circular map for MR210068