

Product datasheet for **MG210068**

Gucy1a1 (NM_021896) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy1a1 (NM_021896) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gucy1a1
Synonyms:	1200016O07Rik; sGC-alpha1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210068 representing NM_021896
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTTCTGCAGGAAGTTCAAGGATCTCAAGATCACAGGGGAGTGTCTTTCTCCTTACTGGCCCCTGGTC
AGGTTCC**T**AAGGAGCCAACAGAGAGGTGGCTGGAGGCTCTGAGGGCTGCCAGGCTACTCTGCCATCTG
CCAGTACTTTCTGAGAAGAATGCAGAAGGGAGTCTCCCCAAAGAAAGACAAGCCGAACAGAGTCTAC
CTGCACACCCTGGCAGAGAGTATTTGCAAGCTCATCTCCAGAGTGTGAGCGACTGAACCTTGCACTTC
AGAGAACCTTGGCAAAACATAAAATAGAAGAAAACAGGAAATCTTCAGAAAAAGAAGACCTTGAAAAAT
AATCGCAGAAGAAGCAATTGCAGCAGGTGCCCCAGTGGAGGCGCTCAAAGACTCTCTGGCGGAGGAGCTG
TTCAAGATCTGCTATGAGGAAGATGAGCACATTTTGGGCGTGGTTGGCGGCACCCTGAAGGACTTCTAA
ATAGTTCAGCACGCTCCTCAAGCAGAGCAGCCACTGCCAAGAGGCGGAGAGCGGGGACGACTGGAAGA
TGCTCCATCTTATGCC**TGGACAAGGACCAGGACTTTCTAAATGTTTACTACTTCTCCCGAAGAGAACC**
ACAGCCCTGCTTCTCCCTGGTATCATTAAAGCGGCTGCTCGCATACTGTACGAAAGCCACGTGGAGGTGT
CCCTGATGCCCTCCCTGCTTCCGAAGTACTGTACCAGT**TTT**GTGAACCAGCCCTATTTGCTCTACTCCGT
TCATGTGAAGAGCACCAAGCCGTCCTGTCCCCAGGCAAGCCCCAGTCTCGCTAGTGTATCCCCGTTCCG
CTCTTCTGCAAGACTTTCCCGTTCATTTATGCTGGACCGAGACCTGGCCATCCTGCAGCTGGGTAACG
GCATCAGAAGGCTGGTGAACAAGAGGGACTTCCAAGGGAAAGCCCAACTTTGAAGATTTCTTTGAAATTTCT
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GCTCTATCTGTCGACATCCCAATTCATAACGCCCTGAGGGATGTTGTCTTGATAGGGGAGCAGGCACGG
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ATTGCACAGAGAGAGTGACACCCATGCTGTCCAGATAGCACTGATGGCCCTGAAGATGATGGAGCTCTCC
AATGAGGTCATGTCTCCACCGGAGAACCTATCAAGATGCGAATTGGACTACATTCTGGATCAGTGT**TTG**
CTGGAGTTGTTCGAGTGAAGATGCCCGGTATTGCCTGTTTGGAAACAATGCTCACTCTGGCTAACAAAT
TGAATCCTGCAGTGTGCCTCGGAAAATCAATGTCAGCCCCACCACATACAGGTTACTCAAAGACTGTCTCT
GGCTTTGTGTTACCCCGAGATCAAGGGAGGAGCTTCCACCAAATTCCTAGTGACATTCTGGGATCT
GTCAC**TTT**CTGGATGCTTATCACCATCAAGGACCTAATTCCAAACCATGGTTCCAGGATAAAGATGTGGA
AGATGGAACGCCAACTTCTTAGGCAAAGCGTCAGGGATAGAT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210068 representing NM_021896
 Red=Cloning site Green=Tags(s)

MFCRKFKDLKITGECPFSLAPGQVPKEPTEEVAGGSEGCQATLPICQYFPEKNAEGSLPQRKTSRNRVY
 LHTLAESICKLIFPECERLNALQRTLAKHKIEENRKSSEKEDLEKIIAEEAIAAGAPVEALKDSLGEEL
 FKICYEEDEHILGVVGGTLKDFLNSFSTLLKQSSHQCQEAERRGRLEDASILCLDKDQDFLNYYYYFPKRT
 TALLLPGIKAAARILYESHVEVSLMPPCFRSDCTEFVNQPYLLYSVHVKSTKPSLSPGKPQSSLVIPAS
 LFCKTFPFHFMLDRDLAILQLGNIRRLVNRDFQGKPNFEFFFEILTPKINQTFSGIMTMLNMQFVIRV
 RRWDNSVKSSRVMDLKGQMIYIVESSAILFLGSPCVDRLEDFTGRGLYLSDIPIHNALRDVVLIGEVAR
 AQDGLKKRLGKLKATLEHAHQALEEEKKRTVDLLCSIFPSEVAQQLWQQQIVQAKKFSEVTMLFSDIVGF
 TAICSQCSPLQVITMLNALYTRFDQQCGELDVYK VETIGDAYCVAGGLHRES DTHAVQIALMALKMMELS
 NEVMSPHGEPKMRIGLHSGSVFAGVVGKMPRYCLFGNNVTLANKFESCSVPRKINVSPTTYRLLKDCP
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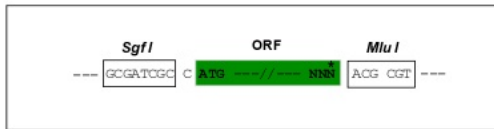
TRTRPLE - GFP Tag - V

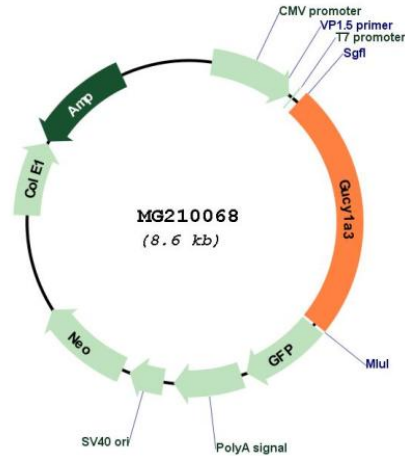
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_021896

ORF Size: 2073 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: 4722 bp

RefSeq ORF: 2076 bp
Locus ID: 60596
UniProt ID: Q9ERL9
Cytogenetics: 3 E3