

Product datasheet for **MG215278**

Gucy1a2 (NM_001033322) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy1a2 (NM_001033322) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gucy1a2
Synonyms:	6330407118Rik; A230060L24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215278 representing NM_001033322
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTCGAAGAAAGATTTCATCCGAGTCTTTAGCTCTTTGAGCTCTGACTACCTGGAGACCAGCCCGG
 AGGAGGAAGGGGAGTGCCATTGTCCAGGCTCTGCTGGAATGGCAGCCGAGCCCGCCAGGGCCACCTGG
 CTCTAGAGAGGCCGCTAAGGCTGCCACTTCGGCCCCGCTGCCTCTGCCGCCGCGCCTCTGCTGCAGTC
 GCCGCGGAGTACAAGAGAGCCCAACGCCGCGGAAGGGTCAACCTGGACTCACTAGGCGAAAGCATCAGCC
 TCCTGACGGCGCCCTTGCTCAGACGATACACATGACTCTCAAGAGGACATTGCAGTATTATGAACACCA
 AGTTATTGGTTATAGGGATGCAGAAAAGAATTTCCACAATATCTCTAAAAGATGCTCCTATGCAGACCAT
 TCCAACAAAGAGGAAATGAAGATGTCTCAGGAATTCCTCAGTGCAGTCTAATGTACTCGGACTGCAGT
 TCCAAGAAATCAAGAAAGATTTGGTGAGGAATCTTTAAGATATGCTTTGATGAGAATGAAAGAGTCTCT
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 CCAAGCAATTGCAGCTGTCTTACTTTCTTATCAAAGAATGTGAAACTACTCAGATCACAAAGGACAATC
 CACAAGTACTTCCCAAGTTCTGCAGACCTCAGAATCAGCATCAACACCTTCTGCAGAGCCTTCCCCTT
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 AGCAATTCAGATGCGGATAGGCATTCACTCAGGCTCTGTGCTGGCTGGTGTGGTGGGAGTACGAATGCCA
 CGATATTGCTTTTTGGAAACAATGCTACTCTGGCAAGCAAATTTGAATCTGGAAGTCACTCTCGGCGTA
 TCAATGTCAGCCCTACTACTTACCAATTAATAAACGAGAAGACAGTTTACATTTATTCCTCGTTCTCG
 AGAAGAATTCAGACAACCTTCCGAAGGAAATTCCTGGGGTCTGCTATTTCTGGAGTTAAGGACTGAC
 CCAAAGCCACAAAGCCATCCCTATCTTCATCGAGAATAAAAAAGGTTTCTACAATATTGGCACAATGT
 TCCTCCGGGAAACAAGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215278 representing NM_001033322
 Red=Cloning site Green=Tags(s)

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MSRRKISSESFSSLSSDYLETSPREEGECPLSRLCWNGSRSPGPPGSREAAKAATSAPAASAAAAA  

AAEYKRAQRRGRVNLDSLGESISLLTAPLPQTIHMTLKRTLQYYEHQVIGYRDAEKNFHNI  

SNKEEIEDVSGILQCTANVLGLQFQEIQERFGEEFFKICFDENERVLRVAGSTLQDFNNGFD  

ALLEHIRT SFGKQATLESSSFLCKELPEGLMLHYFHPHHTVGFAMLGMIKAAGKRIYHLNVEVE  

QIENEKLCFDGSN PSNC SCLTFLIKECETTQITKDN PQGTSQVPADLRISINTFCRAFPFHL  

MFD SNMVLQLGEGLRKQLRY DTHRALKFEDCFEIVSPMINATFDRVLLRLSTPFVIRTKPEAS  

GTENEDKVM EIKQMIHVPESSAILFL GSPCVDKLDEL MGRGLHLSDIP IH DATRDVILV  

GEQAKAQDGLKKRMDK LKATLER THQALEEEKKTVD LLYSIFPGDVAQQLWQGGVQARK  

FDDV TMLFSDIVGFTAICAQCTPMQVISMNELYTRFDHQCGLLDI YKVETIGDAYCVASGL  

HRKSLCHAKPIALMALKMMELSEEVLTPDGKAIQMRIGIHS GSVL GAVGVGRMP RYCLFG  

NNVTLASKFESGSHPRRINVSPTTYQLLKREDSFTFIPRSREELPDNFPKEIPGVCYFLELR  

TDPKPPKPSLSSSRIKKVSYNIGTMFLRETSL
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033322

ORF Size: 2190 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_001033322.2](#), [NP_001028494.1](#)

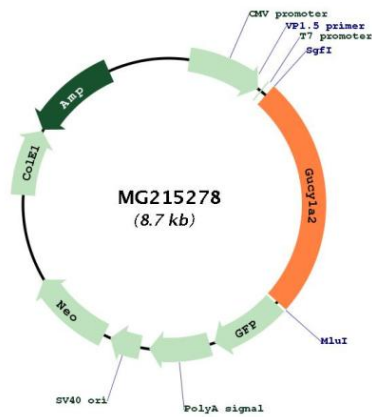
RefSeq Size: 5273 bp

RefSeq ORF: 2193 bp

Locus ID: 234889

Cytogenetics: 9 A1

Product images:



Circular map for MG215278