

Product datasheet for **MR215278**

Gucy1a2 (NM_001033322) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy1a2 (NM_001033322) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gucy1a2
Synonyms:	6330407118Rik; A230060L24Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR215278 representing NM_001033322
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCTCGAAGAAAGATTTTCATCCGAGTCTTTGAGCTCTGACTACCTGGAGACCAGCCCGG
AGGAGGAAGGGGAGTGCCATTGTCCAGGCTCTGCTGGAATGGCAGCCGAGCCCGCCAGGGCCACCTGG
CTCTAGAGAGGCCGCTAAGGCTGCCACTTCGGCCCCGCTGCCTCTGCCGCCGCGCCTCTGCTGACGTC
GCCGCGGAGTACAAGAGAGCCCAACGCCGCGGAAGGGTCAACCTGGACTCACTAGGCGAAAGCATCAGCC
TCCTGACGGCGCCCTTGCTCAGACGATACACATGACTCTCAAGAGGACATTGCAGTATTATGAACACCA
AGTTATTGGTTATAGGGATGCAGAAAAGAATTTCCACAATATCTCTAAAAGATGCTCCTATGCAGACCAT
TCCAACAAAGAGGAAATGAAGATGTCTCAGGAATTTCTCAGTGCAGTCTAATGTACTCGGACTGCAGT
TCCAAGAAATTCAGAAAGATTTGGTGAGGAATCTTTAAGATATGCTTTGATGAGAATGAAAGAGTCTCT
TCGAGCTGTGGGCAGCACATTGCAGGACTTCTCAATGGCTTTGATGCATTGTTAGAACACATTAGGACT
TCTTTTGGGAAACAGGCCACTCTAGAGTCATCATCTTTCTATGCAAAGAGCTTCTGAAGGTACTCTCA
TGCTCCATTACTTCCACCTCACCATACGGTGGGCTTTGCAATGCTGGGAATGATTAAGGCTGCAGGAAA
GAGAATCTATCACTTAAATGTGGAAGTTGAACAAATGAAAATGAGAACTCTGCTTTGATGGTTCAAAC
CCAAGCAATTGCAGCTGTCTTACTTTCTTATCAAAGAATGTGAAACTACTCAGATCACAAAGGACAATC
CACAAGTACTTCCCAAGTTCTGCAGACCTCAGAATCAGCATCAACACCTTCTGCAGAGCCTTCCCCTT
CCATTTGATGTTTACTTAACATGGTGGTCTTACGCTTGGGGAGGGCTACGGAAACAACCTTCGATAT
GACTCACAGAGCACTGAAGTTTGAGGACTGTTTTGAGATCGTCTCTCCAATGATTAATGCCACCTTTG
ATAGAGCTTGTACGATTGTCCACTCCATTTGTTATAAGGACCAAGCCGAAAGCTTCTGGTACTGAGAA
TGAAGATAAGGTGATGGAAATCAAAGGACAAATGATCCATGTCCCAGAATCAAGTGCCATTTTGTTTTGG
GGATCTCCATGTGTGGACAAGTTGGATGAACTGATGGGCCGAGGACTGCATCTCTCAGACATCCCTATTC
ATGATGCCACCCGAGATGTAATTTTAGTTGGAGAGCAAGCCAAGGCCAGGATGGCTTGAAGAAGAGGAT
GGATAAATTAAGGCCACATTAGAAAGAACTCACCAGGCCCTGGAAGAAGAAAAAAGAACAGTGGAT
CTGCTGTATTCCATTTCCCTGGTGTGTAGCCAGCAGTTGTGGCAAGGGCAGCAAGTACAGGCCAGAA
AGTTTGTATGATGCACCATGCTTCTCTGACATTGTGGGCTTTACAGCCATATGTGCTCAGTGTACTCC
CATGCAGGTGATCAGCATGCTCAATGAACTCTACACAAGATTTGATCACCAGTGTGGCCTTTTGGATATT
TACAAGGTGGAACAATAGGGGACGCATACTGTGTGGCATCAGGACTGCACAGGAAAAGCCTATGCCATG
CAAAGCCATTGCTCTGATGGCCTTAAAGATGATGGAGCTTTCAGAAGAAGTTCTGACTCCCGATGGAAA
AGCAATTCAGATGCGGATAGGCATTCACTCAGGCTCTGTGCTGGCTGGTGTGGTGGGAGTACGAATGCCA
CGATATTGCTTTTTGGAAACAATGCTACTCTGGCAAGCAAATTTGAATCTGGAAGTCACTCTCGGCGTA
TCAATGTCAGCCCTACTACTTACCAATTAATAAACGAGAAGACAGTTTACATTTATTCCTCGTTCTCG
AGAAGAACTTCCAGACAACCTTCCGAAGGAAATTCCTGGGGTCTGCTATTTCTGGAGTTAAGGACTGAC
CCAAAGCCACAAAGCCATCCCTATCTTCATCGAGAATAAAAAAGGTTTCTACAATATTGGCACAATGT
TCCTCCGGGAAACAAGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215278 representing NM_001033322
 Red=Cloning site Green=Tags(s)

```
MSRRKISSESFSSLSSDYLETSPREEGECPLSRLCWNGSRSPGPPGSREAAKAATSAPAASAAAASAAV
AAEYKRAQRRGRVNLDSLGESISLLTAPLPQTIHMTLKRLLQYEHQVIGYRDAEKNFHNI SKRCSYADH
SNKEEIEDVSGILQCTANVLGLQFQEIQERFGEEFFKICFDENERVLRVAGSTLQDFNFNGFDALLEHIRT
SFGKQATLESSSFLCKELPEGTMLMLHYFHPHHTVGFAMLMGIKAAGKRIYHLNVEVEQIENEKLCFDGSN
PSNCSTLFLIKECETTQITKDNPOGTSQVPADLRISINTFCRAFPHLMFDSNMVVLQLGEGLRKQLRY
DTHRALKFEDCFEIVSPMINATFDRVLLRLLSTPFVIRTKPEASGTENEDKVMKQMIHVPESSAILFL
GSPCVDKLDELGRGLHLSDIPIHDATRDVILVGEQAKAQDGLKKRMDKLNKATLERTHQALEEEKKTVD
LLYSIFPGDVAQQLWQQQVQARKFDDVTMLFSDIVGFTAICAQCTPMQVISMNELYTRFDHQCGLLDI
YK VETIGDAYCVASGLHRKSLCHAKPIALMALKMMELSEEVLTPDGKAIQMRIGIHSGLVAGVGVVRMP
RYCLFGNNVTLASKFESGSHPRRINVSPPTYQLLKREDSFTFIPRSREELPDNFPKEIPGVCFLELRD
PKPPKPSLSSRIKKVSYNIGTMFLRETSL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9099_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

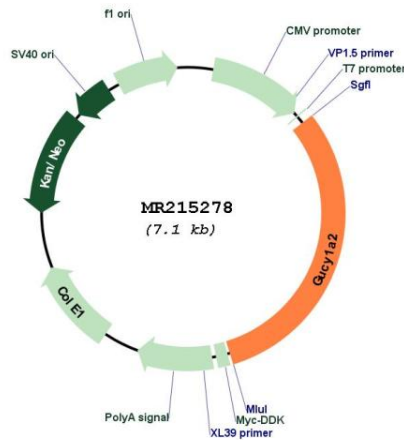
ACCN: NM_001033322

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:	<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_001033322.2</u> , <u>NP_001028494.1</u>
RefSeq Size:	13727 bp
RefSeq ORF:	2193 bp
Locus ID:	234889
Cytogenetics:	9 A1
MW:	81.8 kDa

Product images:


Circular map for MR215278