

## Product datasheet for **RN214163**

### **Gucy1a2 (NM\_023956) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gucy1a2 (NM_023956) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gucy1a2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN214163 representing NM\_023956  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCTCGCAGGAAGATTTTCATCCGAGTCTTCAGCTCTCTGGGCTCCGATTACCTGGAGACCAGCCCGG  
 AAGAGGAAGGGGAATGCCCTTGTCTAAGCTCTGCTGGAATGGCAGCCGAGCCCGCCAGGGCCACCTGG  
 CTCAGAGCAGCCGCTATGGCTGCCACCCAGTCCCGCTGCCTCTGTCGCTGCGGCAGCTGCTGCAGTC  
 GCCGCCGGTCCAAGAGAGCCCAACGCCCGGAGGGTCAACCTGGACTCACTGGGCAGAGTATCAGTC  
 TCCTGACGGCGCCCTCGCCTCAGACGATACACATGACTCTCAAGAGGACATTGCAGTATTATGAACATCA  
 AGTTATTGGTTATAGGGATGCAGAAAAGAATTTCCACAATATCTCTAATAGATGCTCCTCTGCAGACCAT  
 TCCAACAAAGAGGAAATTGAAGATGTCTCAGGAATTTCTCGGTACTGCAAATGACTCGGACTGAAGT  
 TCCAAGAAATTCAGAGAGGTTTGGTGAGGAATCTTTAAGATATGCTTTGATGAGAATGAGCGAGTCT  
 TCGAGCTGTAGGCAGCACATTGCAGGATTTCTCAATGGCTTCGATGCATTGTTGGAACACATTAGGACT  
 TCAATTTGGGAAACAGGCCACTCTAGAGTACCATCTTTCTATGCAAAGAGCTTCTGAAGGTACTCTCA  
 AACTCCACTACTTCCACCCACCATACAGTGGGCTTCGCAATGCTGGGAATGATCAAGGCTGCAGGAAA  
 GAGAATCTATCACTTAAATGTGGAAGTTGAACAAATTGAAAATGAGAAATTTTGCTGTAGGTTCAACC  
 CCAAGCAATTATAGTGTCTTACCTTCTTATCAAAGAATGTGAGACTACTCAGATCACAAAAGAACATTC  
 CACAAGTACTTCCAAATTCCTACAGACCTCAGAATCAGTATCAACACCTTCTGCAGAACCTTCCCATT  
 CCATTTGATGTTCCAGCCTAACATGGTGGTCTTCAACTTGGAGAGGGCTACGAAAGCAACTTCGATGT  
 GACAATCACAAAGTACTGAAGTTTGAGGACTGTTTTGAGATCGTCTCCTCAAAGGTTAATGCCACTTTTG  
 ATAGAGTCTTGTACGATTGTCCACCCATTTGTGATAAAGGACAAAGCCTGAAGCTTCTGGTACTGACAA  
 TGAAGATAAGGTGATGGAATCAAAGGACAAATGATCCATGTCCAGAAATCAAATGCCATTTTGTTTTG  
 GGCTCTCCATGTGTGGACAAGTTGGATGAACTCATAGGCCGAGGACTGCATCTCTCAGACATCCCCATTC  
 ATGATGCCACTCGAGATGTCATTTTAGTTGGAGAGCAAGCAAAGGCCAGGATGGCTTGAAAAAGAGGAT  
 GGATAAATTAAGCCACCTTAGAAAAACTCACCAGGCCCTGGAAGAAGAGAAAAAGACAGTGGAT  
 CTGCTGTATTCCATTTCCCTGGTGTGTAGCCAGCAGTTGTGGCAACGACAGCAAGTACAGGCCAGAA  
 AGTTTGATGATGCTACTATGCTCTTCTGACATTGTGGGCTTCACAGCTATATGTGCCAGTGTACTCC  
 CATGCAGGTGATCAGCATGCTCAATGAACCTTACACGAGATTTGATCACCAGTGTGGCTTTTTGGATATT  
 TACAAGGTAGAAACAATAGGGGACGCATACTGTGTTGCATCAGGGCTTCACAGGAAAAGCCTATGCCATG  
 CGAAGCCATTGCTCTGATGGCCTTAAAGATGATGGAGCTTTCAGAAGAGTTTCTGACTCCTGATGGAA  
 ACCCATTCAGATGCGGATAGGCATTCATTAGGCTCTGTGCTAGCTGGTGTGGTGGAGTGAATGCCG  
 CGATATTGCTTTTTGGAATAATGCTACTCTGGCAAGCAAATTTGAATCTGGAAGTATCCTCGGGCGCA  
 TCAACATCAGCCCACTACTTACCAATTAATAAACGAGAAGACAGTTTACATTTATTCCTCGTTCTCG  
 TGAAGAATTCAGACAATTTCCAAAGGAAATCCCTGGGGTCTGCTATTTCTGGAGTTAAGGACTGGC  
 CCAAAGCCACAAAGCCATCCCTGTCTTCATCGAGAATAAAAAAGGTTTCTACAATATTGGCACGATGT  
 TCCTCCGAGAACTAGCCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_023956

**Insert Size:** 2193 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_023956.1</a></u> , <u><a href="#">NP_076446.1</a></u>
<b>RefSeq Size:</b>	2657 bp
<b>RefSeq ORF:</b>	2193 bp
<b>Locus ID:</b>	66012
<b>UniProt ID:</b>	<u><a href="#">Q9WVI4</a></u>
<b>Cytogenetics:</b>	8q11
<b>Gene Summary:</b>	guanylyl cyclase that is nitric oxide-sensitive [RGD, Feb 2006]