

Product datasheet for **RN217158**

Gucy1b2 (NM_001270711) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy1b2 (NM_001270711) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gucy1b2
Synonyms:	Gucy1b2a; Gucy1b2b; SGC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>RN217158 representing NM_001270711

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

 ATGTATGGATTTCACACCTGCCTGCAGTCTCTTGTGACAGAGAAATTTGGTGAGGAGACATGGGAGA
 AGCTGAAGGCTTCTGCAGAAGTGCAAGATGTCTTCATGACCTACACCGTGTATGATGACATCATCACCAT
 TAAGCTCATCCAAGAAGCCTGCAAGGTTCTGGATGTGTCCATGGAAGCCATTCTGAAGCTCTTTGGCGAA
 TACTTCTTTAAGTTCTGTAAGATGTCTGGCTATGACAGGATGCTGCGGACACTTGGAGGAAATCTCACCG
 AGTTTATTGAAAACCTAGATGCACTCCACAGTTACCTGGCACTGTCTATCAGGAAATGAACGCACCATC
 CTTTCGAGTGGAGGAAGGAGCTGACGGGCGATGCTTCTCCACTACTACTCAGACAGACATGGTCTGTGT
 CACATTGTACCAGGTATCATTGAAGCTGTGGCCAAGGACTTCTTGACACTGATGTGGCCATGAGTATCC
 TGGATATGAACGAAGAGGTGAAAGGACAGGGAAGAAAGAACATGTTGTGTTTCTGGTCGTGCAGAAAGC
 TCACAGACAGATAAGAGGAGCAAAGGCAAGCCGCCACAAGGCAGTGAGGACAGCCAGGCAGACCAGGAG
 GCTCTCCAGGGAACACTCCTTCGGATGAAGGAGAGATATTTAAACATCCCTGTTTGCCCTGGGGAGAAAT
 CTCACTCAACTGCTGTGAGGGCATCGGTCTTTTGGAAAAGGGCCCTCAGGGACACCTTCCAGCCCGT
 CTATCCTGAGAGACTATGGGTGCAAGAGGAGGTGTTCTGTGATGCTTTTCCTTTCCACATTGCTTTGAT
 GAAGCACTAAGGGTCAAGCAAGCTGGAGTGAATATTCAGAAGTATGTCCCTGGAATCTTAACCCAGAAGT
 TTGCACTAGATGAGTATTTTCCATCATCCACCCTCAAGTTACTTTCAACATCTCCAGCATCTGCAAGTT
 CATTAAACAGTCAGTTTGTCTTGAAGACAAGAAAAGAAATGATGCCAAAGCAAGGAAGAGCCAGCCGATG
 CTCAAACCTCCGGGTGAGATGATCTGGATGGAGTCTCTGAGGTGCATGATCTTCATGTGTTCCCAAAGC
 TCCGCAGCCTGCAAGAGCTGGAAGAGAGCAAGATGCATCTTTCTGATATCGCTCCGCACGACAGCAGGAG
 GGATCTCATCCTCCTCAACGACAGAGGCTGGCAGAGATGGAGCTGTCTGCCAACTGGAAAAGAAGAAAG
 GAGGAGTTGCGTGTCTTTCCAATCACCTGGCCATCGAGAAGAAGAAGACAGAGACCTTGCTGTATGCCA
 TGCTGCCTGAACATGTGGCCAACCAACTCAAGGAGGGCAGAAAGGTGGCTGCAGGAGAATTTGAAACATG
 TACAATCTTTTTCAGCGATGTTGTGACATTTACCAACATCTGTGCAGCCTGTGAACCTATCCAAATCGTG
 AACATGCTGAATTCAATGTACTCCAAGTTTACAGGTTAACCAGTGTCCATGATGTCTACAAAGTAGAAA
 CAATAGGGGATGCTTACATGGTGGTGGGTGGAGTACCAGTACCCGTTGAAAGCCATGCTCAAAGAGTCGC
 CAATTTTGCTCTGGGGATGAGAATTTCTGCAAAAGAAGTATGAATCCTGTCACTGGGGAACCTATCCAG
 ATCAGAGTGGGAATCCCACTGGACCAGTCTAGCAGGTGTTGTGGGAGACAAGATGCCTCGGTACTGCT
 TGTTTGGTGACACTGTAAACACAGCCTCTAGGATGGAAAGTACGCGGCTCCAGCAAGTGCATCTGAG
 CCCACAGCCCACAGAGCCCTGAAAAACAAGGTTTGAATTTGTGAGGAGAGGCGAGATCGAAGTGAAG
 GGGAAAGGAAAGATGACCACATACTTTCTGATCCAGAACCTGAATGCCACCGAGGATGAGATAATGGGGC
 GACCTTCAGCCCCGCTGATGGGAAGGAAGTATGTACTCCCGAAACCAAGTCAGGAAGTCCCCTGCTGT
 CCCGAGGAACACAGACCATCAGCAACAAGTCTACAAAGGAGACCCAGCAGACGCTTCTAATGAAGTCACA
 CTTGCTGGGAGCCAGTGGCAGGGCGAACTCCACAGATGCAGTCAATAACCAGCCATCACCAGATGAGA
 CCAAGACAAGTGTGTTGCTAGTGGCCCTGTGCTGTCTGCTTTCTGTGTTGTGCT**GTA**
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001270711

Insert Size:

2229 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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001270711.1</u> , <u>NP_001257640.1</u>
RefSeq Size:	2452 bp
RefSeq ORF:	2229 bp
Locus ID:	25206
UniProt ID:	<u>P22717</u>
Cytogenetics:	15p12
Gene Summary:	subunit of soluble guanylate cyclase, which catalyzes the conversion of GTP to cyclic GMP; may be a candidate gene for involvement in blood pressure regulation [RGD, Feb 2006] Transcript Variant: This variant (1) encodes the longer isoform (1).