

Product datasheet for **RN202667**

Gucy1b3 (NM_012769) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy1b3 (NM_012769) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gucy1b3
Synonyms:	Gucy1b1; SGC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN202667 representing NM_012769
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACGGTTTTGTGAACCATGCCTGGAGCTGCTGGTATCCGCAATTACGGTCCCAGGTGTGGGAAG
 ACATCAAAAAAGAGGCGCAGCTGGATGAAGAAGGCCAGTTTCTTGTGAGAATAATCTACGATGATCCAA
 AACCTATGACTTGGTGGCTGCTGCGAGCAAAGTCTCAACCTCAATGCTGGTGAATCCTGCAGATGTTT
 GGAAGATGTTTTCTGCTTCTGTCAAGAGTCTGGCTATGATACCATCTTGCCTGCTGGGATCTAATG
 TCAGGGAGTTTTGCAGAACCTCGACGCCCTGCACGACCCTCGCCACCATCTACCCAGGGATGCGCGC
 ACCTTCTTCCGGTGCACCGATGCAGAAAAAGGCAAAGGGCTCATTCTGCACTACTACTCGGAAAGAGAG
 GGGCTTCAGGACATTGTGATCGGATTATCAAGACTGTAGCTCAACAGATCCATGGCACTGAGATAGACA
 TGAAGTTATTGAGCAAGAAGTGAAGAATGTGATCATACCAATTTTTAATTGAAGAAAAAGAATCAA
 AGAAGAGGATTTTTATGAAGATCTGGACAGTTTGAAGAGAACGGTACCCAGGACTCCCGTATCAGCCCG
 TACACCTTCTGCAAGCGTTTTCTTTTACATCATATTTGACCGGACCTAGTAGTCACGCAAGTGTGAA
 ATGCTATCTACAGAGTGCTCCCCAGCTCCAGCCTGGGAAGTGCAGCCTTCTGTCTGTCTTCTCTGTT
 CCGCCCTCATATTGACATCAGTTTCCACGGGATTTTTCACACATCAATACCGTCTTTGTACTGAGAAGC
 AAGGAAGGGTTGCTGGATGTTGAGAACTTGAATGTGAGGATGAAGTACTGAGTGGGGCAGAGATTAGCTGCC
 TCCGTCTCAAAGGCCAAATGATCTATTTACCGAAGCAGATAGCATCCTTCTTCTGTTCCACCAAGTGT
 GATGAAGTGGATGACCTAACAGAAGAGGCTGTACCTGAGTGACATCCCTCCTCATGATGCTACACGA
 ACAGGCTGCAGCTCACACTGAGGGCTTTGGAGGATGAGAAGAAAAAGACAGACACATTGCTATATTCTGT
 TCTCCCTCCATCTGTTGCCAATGAGCTGAGACACAAGCGTCCAGTGCCGGCCAAAAGATACGACAATGTG
 ACCATCTTCTCAGTGGCATTGTGGCTTCAACGCTTTCTGTAGCAAGCATGCATCTGGAGAAGGGGCCA
 TGAAGATTGTCAATCTACTCAACGACCTTACACCAGATTCGACACACTGACTGATTACCGAAAAACCC
 ATTTGTTTACAAGGTGGAACAGTTGGTGACAAGTATATGACAGTGAAGTGGTTTGCAGAACCTGTATC
 CACCATGCACGGTCCATTTGCCACCTGGCTTTAGACATGATGGAATGCTGGTCAAGTTCAAGTAGATG
 GCGAATCTGTTGAGATAACCATCGGGATCCACTGAGGGAGTGGTACAGGTGTGATTGGACAGCGGAT
 GCCACGGTATTGTCTTTCGAAATACTGTCAACCTCACAAAGCAGGACAGAAACACAGGAGAAAAGGGG
 AAGATAAACGTTTCCGAATATACATACAGGTGTCTCATGTCCCCAGAAAACCTCGGATCCACAGTTCCACT
 TGGAGCACAGAGTCTGTGTCATGAAGGGCAAGAAGGACCAATGCAAGTCTGTTTTCTATCCAGGAA
 AAACACAGGCACAGAGGAAACAAACCAGGATGAAAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_012769

Insert Size: 1860 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).

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_012769.2](#), [NP_036901.2](#)

RefSeq Size: 3217 bp

RefSeq ORF: 1860 bp

Locus ID: 25202

UniProt ID: [P20595](#)

Cytogenetics: 2q34

Gene Summary: subunit of soluble guanylate cyclase, which catalyzes the conversion of GTP to cyclic GMP [RGD, Feb 2006]