

## Product datasheet for **MC219825**

### **Gucy1b1 (NM\_017469) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gucy1b1 (NM_017469) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gucy1b1
Synonyms:	GC-S-beta-1; GCbeta1; Gucy1b3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219825 representing NM\_017469  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTACGGTTTCGTGAACCATGCCTGGAGCTGCTGGTATCCGCAATTATGGTCCCAGGTGTGGGAAG  
 ACATCAAAAAAGAGGCACAGCTGGATGAAGAAGGCCAGTTTCTTGTGAGAATAATATACGATGATCCAA  
 AACATATGACCTGGTGGCTGCTGCAAGCAAAGTCTCAACCTCAATGCTGGCGAAATCCTGCAGATGTTT  
 GGAAGATGTTTTCTGCTTCTGCCAGGAGTCTGGCTATGATACCATCTTGCCTGCTGGGATCTAATG  
 TCAGAGAGTTTTGCAGAACCTCGATGCCCTGCATGACCACCTCGCCACCATTTACCCAGGGATGCGCGC  
 GCCTTCCTTCAGGTGCACCGATGCGGAGAAAGGCAAAGGGCTCATCTGCACTACTACTCGGAAAGAGAG  
 GGGCTTCAGGACATCGTATCGGGATTATCAAGACTGTTGCTCAACAGATACACGGCACTGAGATAGACA  
 TGAAGGTATTGAGCAAGAAATGAAGAATGTGATCACACCCAGTTTTTAATTGAAGAAAAGGAATCAA  
 AGAAGAGGATTTTTATGAAGATCTGGATAGGTTTGAAGAGAATGGTACCCAGGAATCACGTATCAGCCCT  
 TACACCTTCTGCAAAGCATTTCTTTTTCACATCATATTTGACCGGAACCTAGTGGTCACTCAGTGTGGCA  
 ATGCCATCTACAGAGTGCTCCCCAGCTCCAGCCTGGGAACTGCAGCCTTCTGTCTGTCTTCTCTGTGT  
 CCGCCCTCACATCGACATCAGTTTCCATGGGATTTTTCACACATCAATACAGTCTTTGACTGAGAAGC  
 AAGGAAGGGTTGCTGGATGTGGAGAACTTGAGTGTGAGGATGAACTGACTGGAGCAGAGATTAGCTGCT  
 TACGTCTCAAAGGCCAAATGATCTACTTACCAGAAGCAGATAGCATCCTTCTCTCTGTTACCAAGTGT  
 GATGAACCTGGACGACCTAACAGAAGAGGCCTGTATCTGAGTGACATCCCTCTCCACGATGCTACCCGA  
 GACCTGGTTCTTTGGGAGAACAGTCCGGGAGGAGTACAACTGACACAAGAGCTGAAATCCTCACCG  
 ACAGGCTGCAGCTCACACTGAGAGCCTTGAGGATGAGAAGAAAAGACAGACACATTGCTGATTTCTGT  
 CCTTCTCCATCTGTTGCCAATGAGCTGAGACACAAGCGCCAGTGCCTGCCAAAAGATACGACAATGTG  
 ACCATCTCTTACGCGGATTGTGGCTTCAATGCTTTCTGTAGCAAGCATGCATCTGGAGAAGGGGCCA  
 TGAAGATTGCAATCTCCTCAACGATCTCTACACCCGATTTGACACACTGACTGATTACGAAAAAACC  
 ATTTGTTTACAAGGTGGAACAGTTGGTGACAAGTATATGACAGTGAGTGGCTTGCAGAACCTTGATC  
 CACCATGCACGGTCCATTTGCCACCTGGCTTTAGACATGATGGAATGCTGGTCAAGTTCAAGTAGATG  
 GTGAATCTGTTGAGATAACAATCGGGATCCATACCGGGGAGGTGGTGACAGGTGTGATTGGACAGCGGAT  
 GCCTCGGTATTGTCTCTTTGGGAATACCGTCAACCTCACAAAGCAGGACAGAAACCACAGGAGAAAAGGA  
 AAGATAAATGTTCCGAATATACATACAGGTGTCTCATGTCTCCAGAAAACCTCGGATCCACTGTTCCATT  
 TGGAGCACAGAGGCCAGTGTCTATGAAGGGCAAGAAGGAACCAATGCAAGTCTGGTTCTATCCAGGAA  
 AAATACAGGCACGGAGGAAACAAATGAGGAGGATGAAAAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_017469

**Insert Size:** 1863 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\\_017469.4](#), [NP\\_059497.1](#)

**RefSeq Size:** 3251 bp

**RefSeq ORF:** 1863 bp

**Locus ID:** 54195

**UniProt ID:** [O54865](#)

**Cytogenetics:** 3 E3

**Gene Summary:** Mediates responses to nitric oxide (NO) by catalyzing the biosynthesis of the signaling molecule cGMP.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.