

## Product datasheet for **MR209386**

### **Gucy1b1 (NM\_001161796) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gucy1b1 (NM_001161796) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gucy1b1
Synonyms:	GC-S-beta-1; GCbeta1; Gucy1b3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209386 representing NM\_001161796  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTACGGTTTCGTGAACCATGCCTGGAGCTGCTGGTATCCGCAATTATGGTCCCAGGTGTGGGAAG  
 ACATCAAAAAAGAGGCACAGCTGGATGAAGAAGGCCAGTTTCTTGTGAGAATAATATACGATGATCCAA  
 AACATATGACCTGGTGGCTGCTGCAAGCAAAGTCTCAACCTCAATGCTGGCGAAATCCTGCAGATGTTT  
 GGAAGATGTTTTCTGCTTCTGCCAGGAGTCTGGCTATGATACCATCTTGCCTGCTGGGATCTAATG  
 TCAGAGAGTTTTTGCAGAACCTCGATGCCCTGCATGACCACCTCGCCACCATTTACCCAGGGATGCGCGC  
 GCCTTCTTCAGGTGCACCGATGCGGAGAAAGGCAAAGGGCTCATCTGCACTACTACTCGGAAAGAGAG  
 GGGCTTCAGGACATCGTATCGGGATTATCAAGACTGTTGCTCAACAGATACACGGCACTGAGATAGACA  
 TGAAGGTGATTCAGCAAAGAAATGAAGAATGTGATCACACCCAGTTTTTAATTGAAGAAAAGGAATCAA  
 AGAAGAGGATTTTTATGAAGATCTGGATAGGTTTGAAGAGAATGGTACCCAGGAATCACGTATCAGCCCT  
 TACACCTTCTGCAAAGCATTTCTTTTACATCATATTTGACCGAACCTAGTGGTCACTCAGTGTGGCA  
 ATGCCATCTACAGAGTGCTCCCCAGCTCCAGCCTGGGAACTGCAGCCTTCTGTCTGTCTTCTCTGTT  
 CCGCCCTCACATCGACATCAGTTTCCATGGGATTTTTCACACATCAATACAGTCTTTGACTGAGAAGC  
 AAGGAAGGGTTGCTGGATGTGGGAAACTTGAGTGTGAGGATGAAGTACTGGAGCAGAGATTAGCTGCT  
 TACGTCTCAAAGGCCAAATGATCTACTTACCAGAAGCAGATAGCATCCTTCTCTCTGTTACCAAGTGT  
 GATGAACCTGGACGACCTAACAAGAAGAGGCCTGTATCTGAGTGACATCCCTCTCCACGATGCTACCCGA  
 GACCTGGTTCTTTGGGAGAACAGTTCGGGAGGAGTACAACTGACACAAGAGCTGGAATCCTCACCC  
 ACAGGCTGCAGCTCACACTGAGAGCCTTGAGGATGAGAAGAAAAAGACAGACACATTTGCTATTCTGT  
 CCTTCTCCATCTGTTGCCAATGAGCTGAGACACAAGCGCCAGTGCCTGCCAAAAGATACGACAATGTG  
 ACCATCTCTTACGCGGATTGTGGCTTCAATGCTTTCTGTAGCAAGCATGCATCTGGAGAAGGGGCCA  
 TGAAGATTGCAATCTCCTCAACGATCTTACACCCGATTTGACACACTGACTGATTCACGAAAAAACC  
 ATTTGTTTACAAGGTGGAACAGTTGGTGACAAGTATATGACAGTGAAGTGGCTTGCAGAACCTTGATC  
 CACCATGCACGGTCCATTTGCCACCTGGCTTTAGACATGATGGAATTTGCTGGTCAAGTTCAAGTAGATG  
 GTGAATCTGTTACAGATAACAATCGGGATCCATACCGGGGAGGTGGTGACAGGTGTGATTGGACAGCGGAT  
 GCCTCGGTATTGTCTCTTTGGGAATACCGTCAACCTCACAAAGCAGGACAGAAACCACAGGAGAAAAGGGA  
 AAGATAAATGTTCCGAATATACATACAGAAAACCTCGGATCCACTGTTCCATTTGGAGCACAGAGGCCCA  
 GTGTCTATGAAGGGCAAGAAGGAACCAATGCAAGTCTGGTTCTATCCAGGAAAAATACAGGCACCGGAGG  
 AAACAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209386 representing NM\_001161796  
 Red=Cloning site Green=Tags(s)

MYGFVNHALELLVIRNYGPEVWEDIKKEAQLDEEGQFLVRIIYDDSKTYDLVAAASKVLNLNAGEILQMF  
 GKMFVFCQESGYDTILRVLGNSVREFLQNLDALHDHLATIYPGMRAPSFRCDAEKGKGLILHYYSERE  
 GLQDIVIGI IKTVAQQIHGTEIDMKVIQQRNEECDHTQFLIEEKESKEEDFYEDLDRFEENGTSRIS  
 YTFCKAFPFIIFDRNLVVTQCGNAIYRVLPLQPGNCSLLSVFSLVRPHIDISFHGILSHINTVFLRS  
 KEGLLDVEKLECEDELTAIEISCLRRLKGMIIYLPEADSIILFLCSPSVMNLDL TRRGLYLSDIPLHDATR  
 DLVLLGEQFREEYKLTQEILEILDRLQLTLRALEDEKKTDTLLYSVLPSPVANELRHKRPVPAKRYDNY  
 TILFSGIVGFNAFCSKHASGEGAMKIVNLLNDLYTRFDLTLDSRKNPFVYKVVETVGDKYMTVSGLPEPCI  
 HHARSICHLALDMMIEAGQVQVDGESVQITIGIHTGEVVTGVIGQRMPRYCLFGNTVNLTSRTETTGEK  
 KINVSEYTYRKLGSTVPFGAQRPSVYEGQEGTNASLVPIQEKYRHGGNK

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9043\\_g11.zip](https://cdn.origene.com/chromatograms/mm9043_g11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001161796

**ORF Size:** 1827 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:**

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.

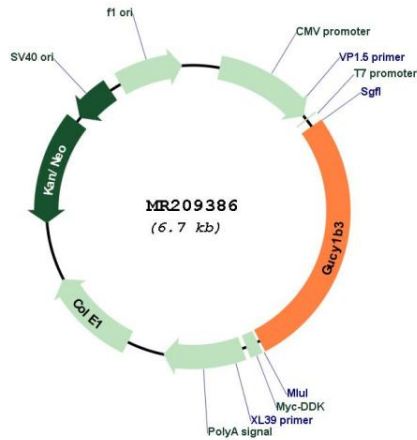
**RefSeq:** [NM\\_001161796.1](#), [NP\\_001155268.1](#)

**RefSeq Size:** 3234 bp

**RefSeq ORF:** 1830 bp

**Locus ID:** 54195  
**Cytogenetics:** 3 E3  
**MW:** 69.4 kDa  
**Gene Summary:** Mediates responses to nitric oxide (NO) by catalyzing the biosynthesis of the signaling molecule cGMP.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209386