

Product datasheet for **MG209386**

Gucy1b3 (BC050945) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy1b3 (BC050945) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gucy1b3
Synonyms:	GC-S-beta-1; GCbeta1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209386 representing BC050945
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACGGTTTCGTGAACCATGCCTGGAGCTGCTGGTATCCGCAATTATGGTCCCAGGTGTGGGAAG
 ACATCAAAAAAGAGGCACAGCTGGATGAAGAAGGCCAGTTTCTTGTGAGAATAATATACGATGATCCAA
 AACATATGACCTGGTGGCTGCTGCAAGCAAAGTCTCAACCTCAATGCTGGCGAAATCCTGCAGATGTTT
 GGAAGATGTTTTCTGCTTCTGCCAGGAGTCTGGCTATGATACCATCTTGCCTGCTCTGGGATCTAATG
 TCAGAGAGTTTTGCAGAACCTCGATGCCCTGCATGACCACCTCGCCACCATTTACCCAGGGATGCGCGC
 GCCTTCTTCAGGTGCACCGATGCGGAGAAAGGCAAAGGGCTCATCTGCACTACTACTCGGAAAGAGAG
 GGGCTTCAGGACATCGTATCGGGATTATCAAGACTGTTGCTCAACAGATACACGGCACTGAGATAGACA
 TGAAGGTATTGACGAAAGAAATGAAGAATGTGATCACACCCAGTTTTTAATTGAAGAAAAGGAATCAA
 AGAAGAGGATTTTTATGAAGATCTGGATAGGTTTGAAGAGAATGGTACCCAGGAATCACGTATCAGCCCT
 TACACCTTCTGCAAAGCATTTCTTTTACATCATATTTGACCGAACCTAGTGGTCACTCAGTGTGGCA
 ATGCCATCTACAGAGTGCTCCCCAGCTCCAGCCTGGGAACTGCAGCCTTCTGTCTGTCTTCTCTGTGT
 CCGCCCTCACATCGACATCAGTTTCCATGGGATTTTTCACACATCAATACAGTCTTTGACTGAGAAGC
 AAGGAAGGGTTGCTGGATGTGGAGAACTTGAGTGTGAGGATGAAGTACTGAGTGGAGCAGAGATTAGCTGCT
 TACGTCTCAAAGGCCAAATGATCTACTTACCAGAAGCAGATAGCATCCTTCTCTCTGTTACCAAGTGT
 GATGAACCTGGACGACCTAACAAGAAGAGGCTGTATCTGAGTGACATCCCTCTCCACGATGCTACCCGA
 GACCTGGTTCTTTGGGAGAACAGTCCGGGAGGAGTACAACTGACACAAGAGCTGGAATCCTCACCC
 ACAGGCTGCAGCTCACACTGAGAGCCTTGAGGATGAGAAGAAAAGACAGACACATTTGCTGATTTCTGT
 CCTTCTCCATCTGTTGCCAATGAGCTGAGACACAAGCGCCAGTGCCTGCCAAAAGATACGACAATGTG
 ACCATCTCTTACGCGGATTGTGGCTTCAATGCTTTCTGTAGCAAGCATGCATCTGGAGAAGGGGCCA
 TGAAGATTGCAATCTCCTCAACGATCTTACACCCGATTTGACACACTGACTGATTACGAAAAAACC
 ATTTGTTTACAAGGTGGAACAGTTGGTGACAAGTATATGACAGTGAAGTGGCTTGCAGAACCTTGTATC
 CACCATGCACGGTCCATTTGCCACCTGGCTTTAGACATGATGGAATTTGCTGGTCAAGTTCAAGTAGATG
 GTGAATCTGTTACAGATAACAATCGGGATCCATACCGGGAGGTGGTGACAGGTGTGATTGGACAGCGGAT
 GCCTCGGTATTGTCTCTTTGGGAATACCGTCAACCTCACAAAGCAGGACAGAAACCACAGGAGAAAAGGGA
 AAGATAAATGTTCCGAATATACATACAGAAAACCTCGGATCCACTGTTCCATTTGGAGCACAGAGGCCCA
 GTGTCTATGAAGGGCAAGAAGGAACCAATGCAAGTCTGGTTCTATCCAGGAAAAATACAGGCACGGAGG
 AAACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209386 representing BC050945
 Red=Cloning site Green=Tags(s)

MYGFVNHALELLVIRNYGPEVWEDIKKEAQLDEEGQFLVRIIYDDSKTYDLVAAASKVLNLNAGEILQMF
 GKMFFVFCQESGYDTILRVLGNSVREFLQNLDALHDHLATIYPGMRAPSFRCRDAEKGKGLILHYYSERE
 GLQDIVIGI IKTVAQQIHGTEIDMKVIQQRNEECDHTQFLIEEKESKEEDFYEDLDRFEENGTSQSRISP
 YTFCKAFPFIIFDRNLVVTQCGNAIYRVLPLQPGNCSLLSVFSLVRPHIDISFHGILSHINTVFLRS
 KEGLLDVEKLECEDEL TGAEISCLRRLKQMIYLPEDSILFLCSPSVMNLDDL TRRGLYLSDIPLHDATR
 DLVLLGGEQFREEYKLTQEILEILDRLQLTLRALEDEKKTDTLLYSVLPSPVANELRHKRVPVPAKRYDNY
 TILFSGIVGFNAFCSKHASGEGAMKIVNLLNDLYTRFDLTDLSRKNPFVYKVVETVGDKYMTVSGLPEPCI
 HHARSICHLALDMMIEAGQVQVDGESVQITIGIHTGEVVTGVIGQRMPRYCLFGNTVNLTSRTETTGEK
 KINVSEYTYRKLGSTVPFGAQRPSVYEGQEGTNASLVPIQEKYRHGGNK

TRTRPLE - GFP Tag - V

Restriction Sites:

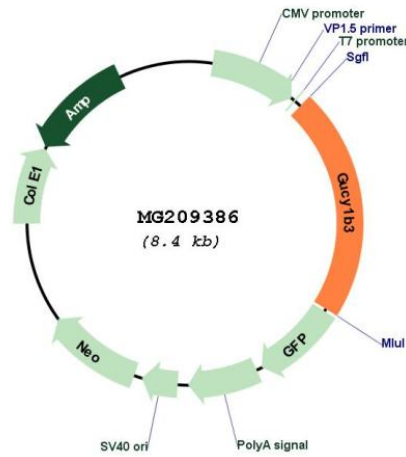
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC050945
 ORF Size: 1829 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:	<ol style="list-style-type: none"> 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:	BC050945 , AAH50945
RefSeq Size:	3192 bp
RefSeq ORF:	1829 bp
Locus ID:	54195
Cytogenetics:	3 E3
Gene Summary:	Mediates responses to nitric oxide (NO) by catalyzing the biosynthesis of the signaling molecule cGMP.[UniProtKB/Swiss-Prot Function]