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Product datasheet for MC218315

Gucy1b1 (NM_001161796) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy1b1 (NM_001161796) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>MC218315 representing NM_001161796
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACGGTTTCGTGAACCATGCCCTGGAGCTGCTGGTGATCCGCAATTATGGTCCCGAGGTGTGGGAAG
ACATCAAAAAAGAGGCACAGCTGGATGAAGAAGGCCAGTTTCTTGTCAGAATAATATACGATGATTCCAA
AACATATGACCTGGTGGCTGCTGCAAGCAAAGTCCTCAACCTCAATGCTGGCGAAATCCTGCAGATGTTT
GGGAAGATGTTTTTCGTCTTCTGCCAGGAGTCTGGCTATGATACCATCTTGCGTGTCCTGGGATCTAATG
TCAGAGAGTTTTTGCAGAACCTCGATGCCCTGCATGACCACCTCGCCACCATTTACCCAGGGATGCGCGC
GCCTTCCTTCAGGTGCACCGATGCGGAGAAAGGCAAAGGGCTCATCCTGCACTACTACTCGGAAAGAGAG
GGGCTTCAGGACATCGTGATCGGGATTATCAAGACTGTTGCTCAACAGATACACGGCACTGAGATAGACA
TGAAGGTGATTCAGCAAAGAAATGAAGAATGTGATCACACCCAGTTTTTAATTGAAGAAAAGGAATCAAA
AGAAGAGGATTTTTATGAAGATCTGGATAGGTTTGAAGAGAATGGTACCCAGGAATCACGTATCAGCCCT
TACACCTTCTGCAAAGCATTTCCTTTTCACATCATATTTGACCGGAACCTAGTGGTCACTCAGTGTGGCA
ATGCCATCTACAGAGTGCTCCCCCAGCTCCAGCCTGGGAACTGCAGCCTTCTGTCTGTCTTCTCTCTGGT
CCGCCCTCACATCGACATCAGTTTCCATGGGATTCTTTCACACATCAATACAGTCTTTGTACTGAGAAGC
AAGGAAGGGTTGCTGGATGTGGAGAAACTTGAGTGTGAGGATGAACTGACTGGAGCAGAGATTAGCTGCT
TACGTCTCAAAGGCCAAATGATCTACTTACCAGAAGCAGATAGCATCCTCTTCCTCTGTTCACCAAGTGT
GATGAACCTGGACGACCTAACAAGAAGAGGCCTGTATCTGAGTGACATCCCTCTCCACGATGCTACCCGA
GACCTGGTTCTTTTGGGAGAACAGTTCCGGGAGGAGTACAAACTGACACAAGAGCTGGAAATCCTCACCG
ACAGGCTGCAGCTCACACTGAGAGCCTTGGAGGATGAGAAGAAAAAGACAGACACATTGCTGTATTCTGT
CCTTCCTCCATCTGTTGCCAATGAGCTGAGACACAAGCGCCCAGTGCCTGCCAAAAGATACGACAATGTG
ACCATCCTCTTCAGCGGCATTGTGGGCTTCAATGCTTTCTGTAGCAAGCATGCATCTGGAGAAGGGGCCA
TGAAGATTGTCAATCTCCTCAACGATCTCTACACCCGATTTGACACACTGACTGATTCACGAAAAAACCC
ATTTGTTTACAAGGTGGAAACAGTTGGTGACAAGTATATGACAGTGAGTGGCTTGCCAGAACCTTGTATC
CACCATGCACGGTCCATTTGCCACCTGGCTTTAGACATGATGGAAATTGCTGGTCAAGTTCAAGTAGATG
GTGAATCTGTTCAGATAACAATCGGGATCCATACCGGGGAGGTGGTGACAGGTGTGATTGGACAGCGGAT
GCCTCGGTATTGTCTCTTTGGGAATACCGTCAACCTCACAAGCAGGACAGAAACCACAGGAGAAAAGGGA
AAGATAAATGTTTCCGAATATACATACAGAAAACTCGGATCCACTGTTCCATTTGGAGCACAGAGGCCCA
GTGTCTATGAAGGGCAAGAAGGAACCAATGCAAGTCTGGTTCCTATCCAGGAAAAATACAGGCACGGAGG
AAACAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001161796

Insert Size: 1830 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).

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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
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 (2) uses an alternate splice site in the 3' coding region compared to variant 1 that results in a frameshift. It encodes isoform 2, which has a shorter and distinct C-terminus compared to 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.

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