

Product datasheet for MC223348

Gucy2c (NM_145067) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy2c (NM_145067) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gucy2c
Synonyms:	A1893437; GC-C; Gcc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223348 representing NM_145067 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGTCAGTCTGGGCTTGGCTGTGCGGTTACTGCTCTCCAGCCCGCGCTGATGGTGTCTGGGCCCT
CTCAGGTGAGGCAGAAGTCCGCAATGGCAGCTACGAGATCAGCGTCCTGATGATGGACAACCTCAGCCTA
CAAAGAACCTATGCAAAACCTGAGGGAGGCTGTGGAGGAAGGACTGGACATAGTCCGAAAGCGCCTGCGT
GAAGCCGACCTAAATGTGACTGTGAACGCGACTTTCATCTACTCCGACGGTCTGATTCATAAGTCAGGTG
ACTGCCGAGCAGCACCTGTGAAGGCCTTGACCTACTCAGGGAGATTACAAGAGATCATAAGATGGGCTG
CGCCCTCATGGGGCCCTCGTGCACGATTTCCACCTTCCAGATGTACCTCGACACAGAGTTGAACTATCCC
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CCAGGAAGCTGATGACTTCTTGGTCGATTTCTGGAAAGTCAACAATGCATCTTTCAAACCTTTTCCTG
GAACTCTTCGATGTTTACAAGAATGGATCGGAACCTGAAGATTGTTTCTGGTACCTCAATGCTCTGGAG
GCTGGGGTGTCTATTTTCTGAGGTGCTCAACTCAAGGATGACTGAGACGCAGCGAAGCTTCCAGG
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TGTGAAAGGTGACCTCCAAGTGGCTGAAGATACTGTTGTCATCCTGGTAGATCTGTTTCAGTAACCATTA
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CCACCTCAAACACCTCTGTGCGCGAGAGGTTTTTCATCGGGGAGAAGTGAATTTTCTCGCTTACTTGGA
GGGAACCTTGCTATTTGGACACATGCTGCAGACGTTTCTTGAATAAGGAGAAAATGTCACGGGTCCCAAG
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CCAATGACGTTCTGGGCTGGGCCCTCAAATCCTGATGATTGCCGTCTTACGCTCACGGGATCCTGG
TAGTTCTGCTGCTGATTGCCCTCCTGCTGAGAAAATACAGAAGAGATCATGCACTTCGACAGAGAA
ATGGTCCACATTCCTTCTGAAAACATCTTTCCTCTGGAGACCAACGAGACCAACCATCAGCCTGAAG
ATTGACGATGACAGGAGACGAGACACAATCCAGAGAGTGCAGAGTCAAATACGACAAGAAGTTGCTGC



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AGTCTGACTACTACAACCTGACTAAGTTCTACGGCACCGTGAAGCTGGACACCAGGATCTTTGGGGTGGT
TGAGTACTGCGAGAGGGGATCCCTCCGGGAAGTGTAAACGACACAATTTCTACCTGACGGCAGGTTT
ATGGATTGGGAGTTTAAAGATCTCTGTCTTAAATGACATCGCTAAGGGGATGTCCTACCTGCACTCCAGTA
AGATTGAAGTCCACGGGCGTCTCAAATCCACCAACTGCGTGGTGGACAGCCGCATGGTGGTGAAGATCAC
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GCCACCATCTCTCAGAAAGGAGACGTGTACAGCTTCGCCATCATTGCCAGGAGATCATCTCCGTAAAGG
AGACTTTTTACACGCTGAGCTGTCGGGATCACAATGAGAAGATTTTCAGAGTGAAAAATTCATACGGGAA
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TCGAAACCTGGAACATCTGGTGGAGGAAAGGACTCAGCTGTACAAGGCGGAGAGGGACAGGGCTGACCAC
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CATGGAGGTGGTGGACATGCTCAACGACATCTACAAGAGCTTTGACCAGATTGTGGACCACCATGACGTC
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CCCTGGCCTCCCGTGTGGATCCGCATTGGAGTTCATTCTGGGCCCTGCGCTGCTGGTGTGGGGGATC
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CCTTGAGGATTACATGAGCAGCTCCACCAATAACCATCCTGAAGAGAACGGATTGCCAGTTCCCTGTATGA
AGTGAGGGGAGAAACCTACTTAAAGGGAAGAGGGACAGAGACCACATACTGGCTGACTGGGATGAAGGAC
CAAGAATACAACCTGCCATCCCCACCGACAGTGGAGAACCAACAGCGTCTGCAGACTGAGTTCTCAGACA
TGATCGTTAGCGCTTACAGAAAAGACAGGCCTCGGGCAAGAAGGCCGGAGGCCCACTCGGGTGGCCAG
CTACAAGAAAGGCTTTCTGGAATACATGCAGCTGAACAATTCAGACCACGATAGCACCTATTTTAG

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_145067

Insert Size:

3147 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_145067.3, NP_659504.2

RefSeq Size:

3879 bp

RefSeq ORF:

3147 bp

Locus ID: 14917

UniProt ID: [Q3UWA6](#)

Cytogenetics: 6 66.67 cM

Gene Summary: Receptor for the E.coli heat-stable enterotoxin (E.coli enterotoxin markedly stimulates the accumulation of cGMP in mammalian cells expressing GC-C). Also activated by the endogenous peptide guanylin (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in a shorter protein (isoform 2), compared to isoform 1.