

Product datasheet for **MC223446**

Gucy2c (NM_001127318) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy2c (NM_001127318) 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:	>MC223446 representing NM_001127318 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACGTCAGTCTGGGCTTGGCTGTGCGGTTACTGCTCTCCAGCCCGCGCTGATGGTGTCTGGGCCCT
CTCAGGTGAGGCAGAAGTCCGCAATGGCAGCTACGAGATCAGCGTCCTGATGATGGACAACCTCAGCCTA
CAAAGAACCTATGCAAAACCTGAGGGAGGCTGTGGAGGAAGGACTGGACATAGTCCGAAAGCGCCTGCGT
GAAGCCGACCTAAATGTGACTGTGAACGCGACTTTCATCTACTCCGACGGTCTGATTCATAAGTCAGGTG
ACTGCCGGAGCAGCACCTGTGAAGGCCTTGACCTACTCAGGGAGATTACAAGAGATCATAAGATGGGCTG
CGCCCTCATGGGGCCCTCGTGCACGTAATCCACCTTCCAGATGTACCTCGACACAGAGTTGAACTATCCC
ATGATTTCCGCTGGAAGTTATGGATTGTCTGTGACTATAAGGAAACCTAACCCAGGATCCTGCCTCCAG
CCAGGAAGCTGATGTACTTCTGGTTCGATTTCTGGAAAGTCAACAATGCATCTTTCAAACCTTTTCCTG
GAACTCTTCGATGTTTACAAGAATGGATCGGAACCTGAAGATTGTTTCTGGTACCTCAATGCTCTGGAG
GCTGGGGTGTCTATTTTCTGAGGTGCTCAACTCAAGGATGACTGAGACGCAGCGCAAGCTTCCAGG
AAATCTTAACAGGCCATAACAGAAAGAGCAATGTGATTGTTATGTGTGGCAGCCAGAAAGCTTCTATGA
TGTGAAAGGTGACCTCCAAGTGGCTGAAGATACTGTTGTATCCTGGTAGATCTGTTCAAGTAAACATTAC
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TTTGCTCGTGCATTGAGGAATCTCACTTTTCAAGGCTTTGCAGGACCTGTGACTCTGGATGACAGTGGG
ACATTGACAACATTATGTCCCTTCTGTATGTGCTCTGGATACCAGGAAATACAAGTTCCTATGAAGTA
TGACACCCACAAAAACAAAATTTCCGGTGGCTGAGAACCCCACTTTCATCTGGAAGAACCACAAGCTC
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TAGTTCTGCTGCTGATTGCCCTCCTCGTCTGAGAAAATACAGAAGAGATCATGCACTTCGACAGAGAA
ATGGTCCACATTCCTTCTGAAAACATCTTTCCTCTGGAGACCAACGAGACCAACCATCAGCCTGAAG
ATTGACGATGACAGGAGACGAGACACAATCCAGAGAGTGCGACAGTGCAATACGACAAGAAGAAAGTGA



TTCTGAAAGACCTCAAGCACAGCGACGGGAACCTCAGTGAGAAGCAGAAGATAGACCTGAACAAGTTGCT
 GCAGTCTGACTACTACAACCTGACTAAGTTCTACGGCACCCTGAAAGCTGGACACCAGGATCTTTGGGGTG
 GTTGAGTACTGCGAGAGGGGATCCCTCCGGGAAGTGTTAAACGACACAATTTCTACCCTGACGGCACGT
 TCATGGATTGGGAGTTTAAAGATCTGTCTTAAATGACATCGCTAAGGGGATGTCCTACCTGCACTCCAG
 TAAGATTGAAGTCCACGGGCGTCTCAAATCCACCAACTGCGTGGTGGACAGCCGCATGGTGGTGAAGATC
 ACCGACTTTGGGTGCAATTCATCTGCCTCAAAAAAAGACCTGTGGACGGCCCCGGAGCACCTGCGCC
 AGGCCACCATCTCTCAGAAAGGAGACGTGTACAGCTTCGCCATCATTGCCAGGAGATCATCTCCGTAA
 GGAGACTTTTACACGCTGAGCTGTGGGATCACAATGAGAAGATTTTCAGAGTGGAAAATTCATACGGG
 AAACCTTTCCGCCAGACCTCTTCTGGAGACTGCAGATGAGAAGGAGCTGGAGGTCTATCTACTTGTCA
 AAAGCTGTTGGGAGGAGGATCCAGAAAAGAGGCCAGATTTCAAGAAAATCGAGAGCACACTGGCCAAGAT
 ATTTGGCCTTTTCCATGACCAGAAAAACGAGTCTTACATGGACACCTTGATCCGACGTCTCCAGCTGTAC
 TCTCGAAACCTGGAACATCTGGTGGAGGAAAGGACTCAGCTGTACAAGCGGAGAGGGACAGGGCTGACC
 ACCTTAACTTCATGCTCCTCCACGGCTGGTGGTAAAGTCACTGAAGGAGAAAGGCATCGTGAGCCAGA
 GCTGTACGAAGAAGTACAATCTACTTCAGTGACATTGTGGGCTTACCACCATCTGCAAGTATAGCAGC
 CCCATGGAGGTGGTGGACATGCTCAACGACATCTACAAGAGCTTTGACCAGATTGTGGACCACCATGACG
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 ACACGCGGTAGACATTTCCAAGATGGCCTTGGACATCCTCAGCTTCATAGGGACCTTTGAGTTGGAGCAT
 CTCCCTGGCCTCCCGTGTGGATCCGCATTGGAGTTTATTCTGGGCCCTGCGCTGCTGGTGTGTGGGGA
 TCAAGATGCCTCGCTATTGCCTGTTTGGAGACTGTCAACACTGCCTCCAGGATGGAATCCACCGGCCCT
 CCCCTTGAGGATTCACATGAGCAGCTCCACCATAACCATCCTGAAGAGAACGGATTGCCAGTTCTCTGAT
 GAAGTGAGGGGAGAAACCTACTTAAAGGGAAGAGGGACAGAGACCACATACTGGCTGACTGGGATGAAGG
 ACCAAGAATAACAACCTGCCATCCCCACCGACAGTGGAGAACCAACAGCGTCTGCAGACTGAGTTCTCAGA
 CATGATCGTTAGCGCCTTACAGAAAAGACAGGCCTCGGGCAAGAAGAGCCGGAGGCCACTCGGGTGGCC
 AGCTACAAGAAAGGCTTTCTGGAATACATGCAGCTGAACAATTCAGACCACGATAGCACCTATTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001127318
- Insert Size:** 3219 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_001127318.1](#), [NP_001120790.1](#)
- RefSeq Size:** 3951 bp

RefSeq ORF: 3219 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 (1) represents the longer transcript and and encodes the longer isoform (1).