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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:	AI893437; GC-C; Gcc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC223348 representing NM_145067
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGTCACTGCTGGGCTTGGCTGTGCGGTTACTGCTCTTCCAGCCCGCGCTGATGGTGTTCTGGGCCT
CTCAGGTGAGGCAGAACTGCCGCAATGGCAGCTACGAGATCAGCGTCCTGATGATGGACAACTCAGCCTA
CAAAGAACCTATGCAAAACCTGAGGGAGGCTGTGGAGGAAGGACTGGACATAGTGCGAAAGCGCCTGCGT
GAAGCCGACCTAAATGTGACTGTGAACGCGACTTTCATCTACTCCGACGGTCTGATTCATAAGTCAGGTG
ACTGCCGGAGCAGCACCTGTGAAGGCCTTGACCTACTCAGGGAGATTACAAGAGATCATAAGATGGGCTG
CGCCCTCATGGGGCCCTCGTGCACGTATTCCACCTTCCAGATGTACCTCGACACAGAGTTGAACTATCCC
ATGATTTCCGCTGGAAGTTATGGATTGTCCTGTGACTATAAGGAAACCCTAACCAGGATCCTGCCTCCAG
CCAGGAAGCTGATGTACTTCTTGGTCGATTTCTGGAAAGTCAACAATGCATCTTTCAAACCCTTTTCCTG
GAACTCTTCGTATGTTTACAAGAATGGATCGGAACCTGAAGATTGTTTCTGGTACCTCAATGCTCTGGAG
GCTGGGGTGTCCTATTTTTCTGAGGTGCTCAACTTCAAGGATGTACTGAGACGCAGCGAACAGTTCCAGG
AAATCTTAACAGGCCATAACAGAAAGAGCAATGTGATTGTTATGTGTGGCACGCCAGAAAGCTTCTATGA
TGTGAAAGGTGACCTCCAAGTGGCTGAAGATACTGTTGTCATCCTGGTAGATCTGTTCAGTAACCATTAC
TTTGAGGAGAACACCACAGCTCCTGAGTATATGGACAATGTCCTCGTCCTGACGCTGCCGTCTGAACAGT
CCACCTCAAACACCTCTGTCGCCGAGAGGTTTTCATCGGGGAGAAGTGACTTTTCTCTCGCTTACTTGGA
GGGAACCTTGCTATTTGGACACATGCTGCAGACGTTTCTTGAAAATGGAGAAAATGTCACGGGTCCCAAG
TTTGCTCGTGCATTCAGGAATCTCACTTTTCAAGGCTTTGCAGGACCTGTGACTCTGGATGACAGTGGGG
ACATTGACAACATTATGTCCCTTCTGTATGTGTCTCTGGATACCAGGAAATACAAGGTTCTTATGAAGTA
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TAGTTCTGCTGCTGATTGCCCTCCTCGTGCTGAGAAAATACAGAAGAGATCATGCACTTCGACAGAAGAA
ATGGTCCCACATTCCTTCTGAAAACATCTTTCCTCTGGAGACCAACGAGACCAACCACATCAGCCTGAAG
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ATTGACGATGACAGGAGACGAGACACAATCCAGAGAGTGCGACAGTGCAAATACGACAAGAAGTTGCTGC
AGTCTGACTACTACAACCTGACTAAGTTCTACGGCACCGTGAAGCTGGACACCAGGATCTTTGGGGTGGT
TGAGTACTGCGAGAGGGGATCCCTCCGGGAAGTGTTAAACGACACAATTTCCTACCCTGACGGCACGTTC
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AGATTGAAGTCCACGGGCGTCTCAAATCCACCAACTGCGTGGTGGACAGCCGCATGGTGGTGAAGATCAC
CGACTTTGGGTGCAATTCCATCCTGCCTCCAAAAAAAGACCTGTGGACGGCCCCGGAGCACCTGCGCCAG
GCCACCATCTCTCAGAAAGGAGACGTGTACAGCTTCGCCATCATTGCCCAGGAGATCATCCTCCGTAAGG
AGACTTTTTACACGCTGAGCTGTCGGGATCACAATGAGAAGATTTTCAGAGTGGAAAATTCATACGGGAA
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AGCTGTTGGGAGGAGGATCCAGAAAAGAGGCCAGATTTCAAGAAAATCGAGAGCACACTGGCCAAGATAT
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TCGAAACCTGGAACATCTGGTGGAGGAAAGGACTCAGCTGTACAAGGCGGAGAGGGACAGGGCTGACCAC
CTTAACTTCATGCTCCTCCCACGGCTGGTGGTAAAGTCACTGAAGGAGAAAGGCATCGTGGAGCCAGAGC
TGTACGAAGAAGTCACAATCTACTTCAGTGACATTGTGGGCTTCACCACCATCTGCAAGTATAGCACGCC
CATGGAGGTGGTGGACATGCTCAACGACATCTACAAGAGCTTTGACCAGATTGTGGACCACCATGACGTC
TACAAGGTAGAAACCATCGGTGACGCCTACGTGGTGGCCAGCGGTCTGCCTATGAGAAACGGCAACCGAC
ACGCGGTAGACATTTCCAAGATGGCCTTGGACATCCTCAGCTTCATAGGGACCTTTGAGTTGGAGCATCT
CCCTGGCCTCCCCGTGTGGATCCGCATTGGAGTTCATTCTGGGCCCTGCGCTGCTGGTGTTGTGGGGATC
AAGATGCCTCGCTATTGCCTGTTTGGAGACACTGTCAACACTGCCTCCAGGATGGAATCCACCGGCCTCC
CCTTGAGGATTCACATGAGCAGCTCCACCATAACCATCCTGAAGAGAACGGATTGCCAGTTCCTGTATGA
AGTGAGGGGAGAAACCTACTTAAAGGGAAGAGGGACAGAGACCACATACTGGCTGACTGGGATGAAGGAC
CAAGAATACAACCTGCCATCCCCACCGACAGTGGAGAACCAACAGCGTCTGCAGACTGAGTTCTCAGACA
TGATCGTTAGCGCCTTACAGAAAAGACAGGCCTCGGGCAAGAAGAGCCGGAGGCCCACTCGGGTGGCCAG
CTACAAGAAAGGCTTTCTGGAATACATGCAGCTGAACAATTCAGACCACGATAGCACCTATTTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

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

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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.

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