

## Product datasheet for MR224108

### Gucy2c (NM\_001127318) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gucy2c (NM\_001127318) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gucy2c  
**Synonyms:** A1893437; GC-C; Gcc  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR224108 representing NM\_001127318  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACGCTCACTGCTGGGCTTGGCTGTGCGGTTACTGCTCTCCAGCCCGCTGATGGTGTCTGGGCT  
 CTCAGGTGAGGCAGAAGTCCGCAATGGCAGCTACGAGATCAGCGTCCTGATGATGGACAACCTCAGCCTA  
 CAAAGAACCTATGCAAAACCTGAGGGAGGCTGTGGAGGAAGGACTGGACATAGTGCAGAAAGCGCCTGCGT  
 GAAGCCGACCTAAATGTGACTGTGAACCGGACTTTCATCTACTCCGACGGTCTGATTGATCATAAGTCAGGTG  
 ACTGCCGAGCAGCACCTGTGAAGGCCTTGACCTACTCAGGGAGATTACAAGAGATCATAAGATGGGCTG  
 CGCCCTCATGGGGCCCTCGTGCACGTATCCACCTTCCAGATGTACCTCGACACAGAGTTGAACTATCCC  
 ATGATTTCCGCTGGAAGTTATGGATTGCTGTGACTATAAGGAAACCCTAACCGAGATCCTGCCTCCAG  
 CCAGGAAGCTGATGACTTCTTGGTTCGATTTCTGGAAAGTCAACAATGCATCTTTCAAACCTTTTCTG  
 GAACTCTTCGATGTTTACAAGAATGGATCGGAACCTGAAGATTGTTTCTGGTACCTCAATGCTCTGGAG  
 GCTGGGTGTCCTATTTTCTGAGGTGCTCAACTTCAAGGATGTACTGAGACGCAGCGAACAGTTCCAGG  
 AAATCTTAACAGGCCATAACAGAAAGAGCAATGTGATTGTTATGTGTGGCAGCCAGAAAGCTTCTATGA  
 TGTGAAAGGTGACCTCCAAGTGGCTGAAGATACTGTTGTATCCTGTTAGATCTGTTGAGTAAACATTAC  
 TTTGAGGAGAACACCACAGCTCCTGAGTATATGGACAATGTCCTCGTCCGACGCTGCCGCTGAAACAGT  
 CCACCTCAAACACCTCTGTGCGCGAGAGGTTTTTCATCGGGGAGAAGTGACTTTTCTCTCGCTTACTTGG  
 GGAACCTTGCTATTTGGACACATGCTGCAGACGTTTCTTGAATAAGGAGAAATGTCACGGGTCCCAAG  
 TTTGCTCGTGATTACAGGAATCTCACTTTTCAAGGCTTTGACAGGACCTGTGACTCTGGATGACAGTGGG  
 ACATTGACAACATTATGTCCTTCTGTATGTGTCTCTGGATACCAGGAAATACAAGGTTCTTATGAAGTA  
 TGACACCCACAAAAACAAACTATTCCGGTGGCTGAGAACCCCAACTTCTGGAAGAACCACAAGCTC  
 CCCAATGACGTTCTGGGCTGGGCCCTCAATCCTGATGATTGCCGCTTTCACGCTCACGGGATCTG  
 TAGTTCTGCTGCTGATTGCCCTCCTCGTGTGAGAAAATACAGAAGAGATCATGCACTTCGACAGAAAGAA  
 ATGGTCCACATTCTTCTGAAAACATCTTCTCTGGAGACCAACGAGACCAACCATCAGCCTGAAG



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ATTGACGATGACAGGAGACGAGACACAATCCAGAGAGTGCACAGTGCACAAATACGACAAGAAGAAAGTGA  
 TTCTGAAAGACCTCAAGCACAGCGACGGGAACCTCAGTGAGAAGCAGAAGATAGACCTGAACAAGTTGCT  
 GCAGTCTGACTACTACAACCTGACTAAGTTCTACGGCACCCTGAAAGCTGGACACCAGGATCTTTGGGGTG  
 GTTGAGTACTGCGAGAGGGGATCCCTCCGGGAAGTGTAAACGACACAATTTCTACCTGACGGCACGT  
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 TAAGATTGAAGTCCACGGGCTCTCAAATCCACCAACTGCGTGGTGACAGCCGCATGGTGGTGAAGATC  
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 ATTTGGCCTTTCCATGACCAGAAAACGAGTCTTACATGGACACCTTGATCCGACGTCTCCAGCTGTAC  
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 ACCTTAACCTCATGCTCCTCCCACGGCTGGTGGTAAAGTCACTGAAGGAGAAAGGCATCGTGGAGCCAGA  
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 CCCATGGAGGTGGTGGACATGCTCAACGACATCTACAAGAGCTTTGACCAGATTGTGGACCACCATGACC  
 TCTACAAGGTAGAAACCATCGGTGACGCCTACGTGGTGGCCAGCGGTCTGCCTATGAGAAACGGCAACCG  
 ACACGCGGTAGACATTTCCAAGATGGCCTTGGACATCCTCAGCTTCATAGGGACCTTTGAGTTGGAGCAT  
 CTCCCTGGCCTCCCCTGTGGATCCGCATTGGAGTTCACTTGGGCCCTGCGCTGCTGGTGTGTGGGGA  
 TCAAGATGCCTCGCTATTGCCTGTTTGGAGACTGTCAACACTGCCTCCAGGATGGAATCCACCGGCT  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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**Protein Sequence:**

>MR224108 representing NM\_001127318  
 Red=Cloning site Green=Tags(s)

MTSLLGLAVRLLLFQPALMVFWASQVRQNCNRNGSYEISVLMMDNSAYKEPMQNLREAVEEGLDIVRRLR  
 EADLNVTVNATFIYSDGLIHKSGDCRSSTCEGLDLLREITRDHKMGCALMGPSCTYSTFQMYLDTELNYP  
 MISAGSYGLSCDYKETLTRILPPARKLMYFLVDFWVNNASFKPFVWSSVYVYKNGSEPEDCFWYLNAL  
 AGVSYFSEVLNFKDVLRRSEQFEILTGHNRKSNVIVMCGTPESFYDVKGDLQVAEDTVVILVDLFSNH  
 FEENTTAPEYMDNVLVLTLPSEQSTSNVSAERFSSGRSDFSLAYLEGLLFGHMLQTFLENGENVTPK  
 FARAFRNLTFQFAGPVTLDSDGIDNIMSLLYVSLDTRKYKVLKMYDTHKNKTIIPVAENPNFIWKNHKL  
 PNDVPLGPQILMIAVFTLTGILVVLIIALLVLRKYRRDHARQKQKWSHIPSENIFFLETNETNHSIK  
 IDDDRRRDTIQRVQRCKYDKKVKILKDLKHSNGFSEKQKIDLNKLLQSDYYNLTKFYGTVKLDTRIFGV  
 VEYCERGLREVLNDTISYPDGTFMDFEKFISVLNDIAKMSYLHSSKIEVHGRLKSTNCVVDSRMVVKI  
 TDFGCNSILPPKDLWTAPEHLRQATISQKGDVYSFAIIAQEIILRKETFYTLSCRDHNEKIFRVENSYG  
 KPFRPDLFLETADEKELEVYLLVKSCWEEDPEKRPDFKKESTLAKIFGLFHDQKNESYMDLIRRLQLY  
 SRNLEHLVEERTQLYKAERDRADHLNFMLLPRLVVKSLEKEGIVEPELYEEVTIYFSDIVGFTTICKYST  
 PMEVDMLNDIYKSFQIVDHDVYKVEITIGDAYVVASGLPMRNGNRHAVDISKMALDILSFIGTFELEH  
 LPGLPVWIRIGVHSGPCAAGVVGKMPRYCLFGDTVNTASRMESTGLPLRIHMSSTITILKRTDCQFLY  
 EVRGETYLGKRGTTTYWLTGMKDQYENLPSPTVENQQRLQTEFSDMIVSALQKRQASGKKSRRPTRVA  
 SYKKGFLEYMQLNNSDHDSTYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9002\\_d02.zip](https://cdn.origene.com/chromatograms/mm9002_d02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001127318

**ORF Size:** 3216 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:**

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

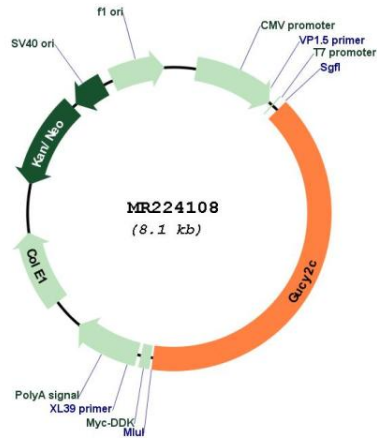
**UniProt ID:** [Q3UWA6](#)

**Cytogenetics:** 6 66.67 cM

**MW:** 123.7 kDa

**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]

**Product images:**



Circular map for MR224108