

Product datasheet for **RN204036**

Gucy2c (NM_013170) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gucy2c (NM_013170) Rat Untagged Clone
Tag: Tag Free
Symbol: Gucy2c
Synonyms: GCC
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN204036 representing NM_013170
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACGTCACCTCTGGGCTTGGCTGTGCGGTTACTGCTCTTCCAACCCACGCTGATGTTCTGGCCCTCC
AGGTGAGGCAGAAGTGCCACAATGGCACCTACGAGATCAGTGTCTGATGATGGATAACTCAGCCTACAA
AGAACCTTTGCAAACTTGAGGGATGCTGTGGAGGAAGGACTGGACATCGTGCGAAAGCGCTCGCGGAA
GCCGAACATAATGTGACTGTGAACGCAACCTTCACTACTCCGATGGTCTGATCCATAAGTCAGGTGACT
GCCGGAGCAGTACCTGTGAAGGCCCTTGACCTCCTCAGGGAAATTACAAGAGATCGTAAGATGGGCTGTGT
CCTCATGGGGCCCTCGTGCACGTATTCCACCTTCCAGATGTACCTTGACACAGAGTTGAACTATCCCATG
ATTTCCGCTGGAAGTTTTGGATTGCTGTGACTATAAGGAAACCTAACCAGGATCCTGCCTCCAGCCA
GGAAGCTGATGTACTTCTTGGTCGATTTCTGGAAAGTCAACAATGCACCTTTCAAACCTTTTCTGGAA
CTCTTCATATGTTTACAAGAACGGATCGGAGCCTGAAGATTGTTTCTGGTACCTCAACGCTCTAGAGGCT
GGGTGTCCTATTTTTCTGAGGTGCTCAGCTTCAAGGATGTATTGAGACGACGTAACAGTCCAGGAAA
TCCTAATGGGCCGTAACAGGAAGAGCAATGTGATTGTTATGTGTGGCAGCCAGAAACCTTCTACAATGT
GAAAGGTGACCTCAAAGTGGCTGACGACACTGTTGTCATCCTGGTAGATCTGTTCCAGTAACCATTTT
GAGGATGACACCAGAGCTCCTGAGTATATGGACAATGTCCTCGTCTGACACTGCCTCCTGAAAAGTTCA
TCGCGAACGCCTGTGCTCTGGGAGTTTTCCATCGGAAAGAAGCGACTTTTCTCTCGCTTACTTGGAGGG
GACCTTGTGTTGGACACATGCTGCAGACGTTTCTTGAATAAGGAGATCTGTCAACACGCCCAAGTTC
GCTCGTGCCTCAGGAATCTCACTTTTCAAGGCTTAGAGGGGCCCGTACTGATGACAGTGGGGACA
TTGACAACATTATGTGCTTCTGTATGTGCTCTGGATACCAGGAAATACAAGTTCTTATGGCGTATGA
CACCCATAAAAACCAAACGATCCCTGTGGCTACGAGCCCAACTCATCTGGAAGAACCACAGACTCCCT
AATGACGTTCTGGGCTGGGCCCTCAAATCCTGATGATTGCCGCTTTCAGCTCACGGGATTGTGGTCCG
TTCTGCTGCTGATTGCCCTCCTGTGCTCAGAAAATACAGAAGAGATCATGAACTTCGACAGAAGAATG
GTCCCACATCCCTTCTGAAAATATCTTTCTCTGGAGACCAACGAGACCAACCATGTGACCTGAAGATT
GACGATGACAGGAGGCGGATACAATCCAGAGAGTGCACAGTGCAAATACGACAAGAAGAAGTATGCC



TGAAAGACCTCAAGCACTGTGATGGTAACTTCAGTGAGAAGCAGAAGATAGAAGTGAACAAGCTACTGCA
 GTCAGACTACTACAACCTGACCAAGTTCTACGGCACCGTGAAGCTAGACACCAGGATCTTTGGGGTGGTC
 GAGTACTGCGAGAGGGGGTCCCTCCGGGAAGTGTAAATGACACGATTTCTACCTGATGGCACGTTCA
 TGGATTGGGAGTTAAGATCTCTGTCTTAAATGACATTGCTAAGGGGATGTCCTATCTGCACTCCAGTAA
 GATTGAAGTCCACGGGCGTCTGAAGTCCACCAACTGCGTGGTGGACAGTCGCATGGTGGTGAAGATCACT
 GATTTTGGGTGCAATTCATCCTGCCTCCAAGAAAGACCTGTGGACTGCCCCGAGCACCTGCGCAAGGA
 CTACTATCTCTCAGAAAGGAGACGTGTACAGCTTCAGCATCATTGCCAGGAGATCATCTCCGCAAGGA
 AACTTTCTACACGCTGAGCTGCCGGATCAGAATGAGAAGATTTTCAGAGTGAAAAATTCCTATGGGACG
 AAACCTTCCGCCAGATCTCTTCTGGAACCCGAGATGAGAAGGAGCTGGAGGTCTATCTATTGGTCA
 AAAGCTGTTGGGAGGAGATCCAGAAAAGAGACCAGATTTCAAGAAAATCGAGAGCACACTAGCCAAGAT
 ATTTGGCCTTTTTCATGACCAAAAAAATGAATCTTACATGGACACCTTGATCCGACGCTACAGCTGTAT
 TCTCGAACCTGGAGCACCTGGTGGAGAAAGGACTCAGCTGTACAAGGCCGAGAGGGACAGGGCTGACC
 ACCTTAACCTTATGCTGCTCCACGGCTGGTGGTAAAGTCCCTGAAGGAGAAAGGCATCGTGGAGCCAGA
 GCTGTACGAAGAAGTCAATCTATTTTCAGTGACATTGTCGGTTTCACGACCATCTGCAAGTACAGCAGC
 CCCATGGAGGTGGTGGACATGCTGAATGACATCTACAAGATTTTGACCAGATTGTGGATCACCACGACG
 TCTACAAGGTAGAAACCATCGGGCATGCCTACGTGGTGGCCAGCGCCTGCCTATGAGAAACGGCAACCG
 GCATGCAGTGGACATTTCCAAGATGGCCTTGGACATCCTCAGTTCATGGGGACCTTTGAGCTGGAGCAT
 CTCCCCGGCCTCCCGTGTGGATTGCGATTGGGGTTTATTCTGGCCCCTGTGCTGCTGGTGGTGGGGA
 TCAAGATGCCTCGTTATTGCCTGTTTGGAGACTGTCAACACTGCCTCCAGGATGGAGTCCACCGGCCCT
 TCCCTTAAGGATTCACATGAGCAGCTCCACCATGCCATCCTGAGGAGAACGGATTGCCAGTTCTCTGTAC
 GAAGTGAAGGGAGAAAACGTACTTAAAGGGAAGAGGGACCGAGACCACATACTGGCTGACTGGGATGAAGG
 ACCAAGAGTACAACCTGCCAACCCACCAACAGTGGAGAACCAACAGCGTCTGCAAACTGAGTTCTCAGA
 CATGATCGTTAGTGCCTTACAGAAAAGACAGCCCTCGGGCGTGAAGAGCCGGAGGCCACTCGGGTGGCC
 AGCTACAAGAAAGGCTTTTTGGAATACATGCAGCTGAACAACCTCAGACCAGATAGCACCTATTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_013170
- 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_013170.1, NP_037302.1
- RefSeq Size:** 3775 bp

RefSeq ORF: 3219 bp
Locus ID: 25711
UniProt ID: [P23897](#)
Cytogenetics: 4q43
Gene Summary: guanylyl cyclase; functions as receptor for heat-stable enterotoxin responsible for acute diarrhea [RGD, Feb 2006]