

Product datasheet for **RR204036**

Gucy2c (NM_013170) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy2c (NM_013170) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gucy2c
Synonyms:	GCC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204036 representing NM_013170 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACGTCCTCTGGGCTTGGCTGTGCGGTTACTGCTCTTCCAACCCACGCTGATGTTCTGGGCCTCCC
AGGTGAGGCAGAAGTGCCACAATGGCACCTACGAGATCAGTGTCTGATGATGGATAACTCAGCCTACAA
AGAACCTTTGCAAACTTGAGGGATGCTGTGGAGGAAGGACTGGACATCGTGCGAAAGCGCTCGCGGAA
GCCGAACATAATGTGACTGTGAACGCAACCTTCACTACTCCGATGGTCTGATCCATAAGTCAGGTGACT
GCCGGAGCAGTACCTGTGAAGGCCCTTGACCTCCTCAGGGAAATTACAAGAGATCGTAAGATGGGCTGTGT
CCTCATGGGGCCCTCGTGCACGTATTCCACCTTCCAGATGTACCTTGACACAGAGTTGAACTATCCCATG
ATTTCCGCTGGAAGTTTTGGATTGCTGTGACTATAAGGAAACCTAACCAGGATCCTGCCTCCAGCCA
GGAAGCTGATGTACTTCTTGGTCGATTTCTGAAAAGTCAACAATGCACCTTTCAAACCTTTTCTGGAA
CTCTTCATATGTTTACAAGAACGGATCGGAGCCTGAAGATTGTTTCTGGTACCTCAACGCTCTAGAGGCT
GGGTGTCCTATTTTTCTGAGGTGCTCAGCTTCAAGGATGTATTGAGACGCAGTGAACAGTTCAGGAAA
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GAGGATGACACCAGAGCTCCTGAGTATATGGACAATGTCCTCGTCTGACTGCCTCCTGAAAAGTTCA
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GTCCCACATCCCTTCTGAAAATATCTTTCTCTGGAGACCAACGAGACCAACCATGTGACCTGAAGATT
GACGATGACAGGAGGCGGATACAATCCAGAGAGTGCACAGTGCAAATACGACAAGAAGAAGTATGCC



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TGAAAGACCTCAAGCACTGTGATGGTAACCTTCAGTGAGAAGCAGAAGATAGAAGTGAACAAGCTACTGCA
 GTCAGACTACTACAACCTGACCAAGTTCTACGGCACCGTGAAGCTAGACACCAGGATCTTTGGGGTGGTC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>RR204036 representing NM_013170
 Red=Cloning site Green=Tags(s)

MTSLGLAVRLLLFQPTLMFWSQVRQKCHNGTYEISVLMMDNSAYKEPLQNLRDAVEEGLDIVRKLRE
 AELNVTVNATFIYSDGLIHKSGDCRSSTCEGLDLLREITRDRKMGCVLMGPSCTYSTFQMYLDTELNYPM
 ISAGSFLSCDYKETLTRILPPARKLMYFLVDFWKVNNAPFKTFWNSSVYKNGSEPEDCFWYLNAL
 GVSYFSEVL SFKDVLRRSEQFQELMGRNRKSNVIMCGTPETFYNVKGD LKVADDTVVILVDFLSNH
 YF EDDTRAPEYMDNVL VLTLPPEKFIANASVSGRFPSESRDFSLAYLEGLLFGHMLQTFLENGESV
 TTPKF ARAFRNLTFQGLEGPVTLDDSGDIDNIMCLLYVSLDTRKYKVL MAYDTHKNQTI
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 HCDGNFSEKQKIELNKLLQSDYYNLTKFYGTVKLDTRIFGVV EYCERGS
 LREVLNDTISYPDGT FMDWEFKISVLNDIAKGMSYLHSSKIEVHGRLKSTNCV
 VDSRMVVKIT DFGCNSILPPKDLWTAPEHLRQATISQKGDVYSFSIIAQEII
 LRKETFYTLSCRQNEKIFRVENSYGT KPFRPDLFLETADKELEVYLLVK
 SCWEEDPEKRPDFKKIESTLAKIFGLFHDQKNESYMDTLIRRLQLY SRNLEHL
 VEERTQLYKAERDRADHLNFMLL PRLVVKSLKEKGIVEPELYEEVTIYFSDI
 VGFTTICKYST PMEVDMLNDIYKSFQIVDHHDVYKVEITGDAYVVASGL
 PMRNGNRHADVISKMALDILSFMGTFELEH LPGLPVWIRIGVHSGPCAAGV
 VGIKMPRYCLFGDTVNTASRMESTGLPLRIHMSSTIAILRRTDCQFLY
 EVRGETYLGKRGTETTYWLTGMKDQEYNLPTPTVENQRLQTEFSDMIVSALQ
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

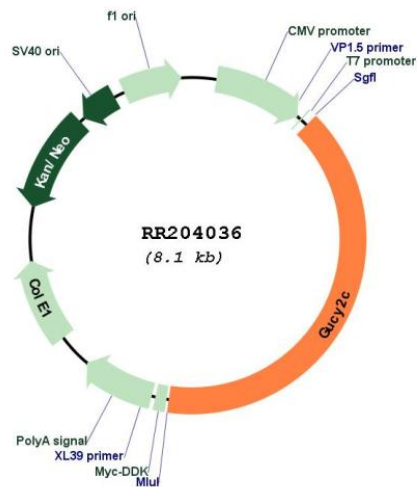
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_013170

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:	<ol style="list-style-type: none">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:	<u>NM_013170.1</u> , <u>NP_037302.1</u>
RefSeq Size:	3775 bp
RefSeq ORF:	3219 bp
Locus ID:	25711
UniProt ID:	<u>P23897</u>
Cytogenetics:	4q43
MW:	123.5 kDa
Gene Summary:	guanylyl cyclase; functions as receptor for heat-stable enterotoxin responsible for acute diarrhea [RGD, Feb 2006]