

Product datasheet for **RN201914**

Gucy2g (NM_139042) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy2g (NM_139042) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gucy2g
Synonyms:	ksGC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN201914 representing NM_139042 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTTACCCATGGCTTCCAGGGCAGCTCTGAGCCTCCACTAGAACATAGGTTCTATGGCGGGGCTGAAA
GCCATGCAGGTCATTCGTCTCTGGTTTTGACGCTCTTTGTCGTTATGCTAATGACTTGCTTGAAGCTGC
TAAGCTCACCGTGGGGTCCATGCCCCCTGGAACATCTCTCATCCATTTAGTGTGCAAAGGTTGGGGCA
GGCCTCCAGATTGCTGTGGACAACTCAACTCAGAGCCAGTGGGTCTGGAACTTGAGCTGGGAGTTCA
CGTACACCAACGCGACCTGCAATGCCAAGGAGTCCCTTGAGCTTTCATCGACCAGGTCCAGAGAGAACA
CATTTCTGTTCTGATTGGACCAGCATGCCAGAACGAGCAGAGGTTATTGGTTTACTGGCCTCCGAGTGG
GACATCCCCTTGTGTTGACTTCGTTGGACAAATGACAGCGCTGGAGGATCACTTCTGGTGTGACACCTGTG
TGACACTTGTGCCGCCAAGCAGGAGATCGGCACTGTGCTTCGGGAAAGCCTGCAGTACCTGGGCTGGGA
ATATATAGGGGTGTTGGAGGCTCCTCGGCAGGTTCTCCTGGGGAAGTGAATGAGCTGTGGAAGGCT
GTGGAGGATGAATCCAGCTCCATTTACCATCACAGCCAGAGTGAGATACAGCAGCGGCCACTCAGACC
TTCTGCAGGAAGGCTCAGGAGCATGTCTTCTGTTGCCAGGTTATCATTCTGATCTGCAGCTCAGAGGA
CGCAAAGCACATTCTGCAAGCAGCAGAGGACCTGGGACTCAACTCGAGAGAATTTGTTTTCTTCTCTTG
CAGCAGCTGGAGGACAGTTTTTGAAGGAAGTACTGGCAGAGGACAAGGTGACACGCTTTCCCAAAGTCT
ATGAGTCGGTGTCTCATTGCTCCAGCACCTATGGAGGGAGCGCTGGAGATGATGACTTCCGGAAGCA
AGTCTACCAAAGGCTGAGGAGGCCACCCTTTCAAAGCTCCATCTCCTCAGAGGACCAGGTGAGCCCTTAC
TCTGCCTACCTGCATGATGCTCTTACTCTACGCTCAGACTGTGGAGGAAATGATGAAGGCTGAGAAAG
ACTTCCGGGATGGGCGGCAGCTGATTAGCACACTGAGAGCTGATCAGGTCACTGCAGGGAATCACTGG
TCCTGTGCTCTTGGACGCCAGGGGAAAAGGCACATGGACTACTCCGCTACGCCCTACAGAAATCTGGA
AACGGATCCCGCTTCTCTCTTTCTTCTTATTGACAGTTTTTCAGAAAGTAATCAGACCTGGAGGGACG
ACTTGAATGCCTCAGGGCCCCATGGCTCCCATCTGAATACAAACCCGACTGTGGATTCCATGAAGACCT
TTGCAGGACGAAGCCTCCGACTGGAGCAGGTATGACTGCATCTGTGACTGCTGTGATCCCCACGGTGACA



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CTGCTGGTTGTTGCCTCAGCAGCTGCCATCACAGGTCTGATGTTATGGAGGCTGAGAGGAAAAGTGCAGA
 ACCACCTGGAGACACCTGGTGGCAGATCCATTATGACAGCATCACTCTTCTGCCTCAGCATAAACCGTC
 CCACCGAGGCACACCTATGTCAAGATGTAACTAGTAATGCATCTACTGTGAAGATTTCTGCAGATTGT
 GGCTCCTTTGCCAAGACTCACCAGGATGAAGAGCTGTTCTATGCCCTGTGGGGCTTTACCAGGGAAATC
 ATGTGGCCCTCTGCTATATCGGCGAGGAAGCAGAAGCACGGATTAAGAAGCCAACGTCTGCGGGAAGT
 CTGGCTGATGTGTGAATTAAGCATGAAAACATCGTCCCTTCTTTGGTGTTCACAGAACCCACCTAAC
 ATCTGCATCGTTACACAGTGTTCAGAAAAAGGAAGTCTCAAGGATGTTTTGAGGAACTCCGATCATGAGA
 TGGATTGGATATTCAAGCTCTCTTCGTGTATGACATAGTCAACGGCATGCTGTTCTCCACGGGAGCCC
 ACTGAGGTCTCACGGCAACCTGAAACCTTCCAACGTCTGGTAGACAGTCACATGCAGCTGAAGCTGGCA
 GGATTCGGGTGTGGGAGTTCAAGCACGGCAGCACCTGCAGGATCTACAACAGGAGGCCACGGACCATT
 CAGAGCTCTACTGGACAGCCCCAGAAGTGTTCGGCTTCGGGAGCTTCCCTGGTCCGGCACCCCGCAGGG
 AGACGTTTACAGCTTTGCCATTCTCTGAGGGACCTGATCCACCAGCAGGCCACGGGCCCTTTGAGGAC
 CTTGAGGCAGCTCCAGAGGAAATCATCAGCTGCATTAAGACTCCCGGGCACCGGTTCCACTTCGGCCGT
 CCCTGTTAGAGGATAAAGGTGACGAAAGGATTGTGGCCCTGGTGAGGGCATGTTGGGCTGAATCTCCAGA
 GCAGAGGCTGCCTTCCCTTCCATCAAGAAGACGTTACGAGAAGCCAGTCCAAGAGGCAGGGTGAGCATC
 TTGGATAGCATGATGGGCAAGCTGGAATGTACGCCAGTCATCTGGAGGAAGTAGTGGAGGAGCGGACCT
 GCCAGCTGGTGGCAGAGAAGAGAAAGGTGGAGAACTCCTGTCCACCATGTTGCCAAGCTTCGTTGGAGA
 ACAGCTAATAGCTGGAAGTCCGTAGAACCAGAACATTTTGAGTCTGTCAACCATCTTTTCTCTGACATC
 GTGGGATTCACAAAATATGTTCTCTCAGCTCCCCCTTGCAAGTGGTGAAGCTCTCAATGACCTGTACA
 GCTTGTGTTGATCACACAATACAGACCATGACGTATAAAGGTGGAAACCATGGTGATGCCTATATGGT
 GGCCAGTGGGCTTCCTATCCGAAATGGAGCTCAACACGCGGATGAGATTGCCACCATGTCTTTGCATTTA
 CTCAGTGTCAACCAACTTCCAGATTGGGCACATGCCTGAGGAGAGACTCAAGCTCCGGATAGGCCTCC
 ACACAGTCCCTGTGGTGGCTGGTGTGGTGGGAATCACCATGCCAGGTACTGTCTGTTTGGAGACTGT
 GAACATGGCTCCAGAATGGAAAGCAGCAGTTTGCCTCTCCGGATTCATGTTTCTCAGAGCACTGCCAGA
 GCTCTTCTAGTAGCAGGAGGATACCATCTTCAAGAGAGGCACCATTTAGTCAAGGGCAAGGAGAAC
 AGACGACCTTCTGGCTGACAGGCAAGATGGCTTCGCTGTCCCGCTCCCGAGTTTACTGAGGAAGAAGC
 CAAAGTTCAGAGATATTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_139042
- Insert Size:** 3312 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_139042.2, NP_620611.2
RefSeq Size: 3442 bp
RefSeq ORF: 3312 bp
Locus ID: 245708
Cytogenetics: 1q55
Gene Summary: a novel soluble guanylyl cyclase; may be involved in cGMP synthesis [RGD, Feb 2006]