

## Product datasheet for RN215539

### Gucy2e (NM\_024380) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy2e (NM_024380) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gucy2e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN215539 representing NM_024380 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGTGCCTGGCTCCTGCCAGCGGGAGGGTTCCCGCGCTGGGTTCTGTATCCCTGCGTGGCAGTCCC  
GGTCCAGCCTCTCGCGGTCTGCGCTGGCCAGGGCTGGGCTGCCCGACTCCTGCTCCTGCTGCTGCT  
CCCATCTCCGTGCTTCTCCGCTGTGTTCAAAGTGGGGTGGTGGCCCTGGGCTTGGACCCCATC  
TTTGACAGGGCCCGACCGGATCTGGCTGCGCGTCTGGCCACCGACCGCCTGAATCGTGACCTTGCCTTAG  
ACGCGCGCCCTGGTTCGAGGTTACGCTGCTCCAGAGCCCTGCCTGACTCCGGGCTCGTAGGGGCTGT  
GTCTCCGCGCTGACTCGAGTCTCTGGCTTGGTGGGTCCGGTGAACCCGCGGCCTGCCGCCAGCCGAG  
CTATTAGCCCAGGAAGCTGGAGTAGCGTGGTGCCTGGGGTGCCTGGCACGCGGGCGGGTACTA  
CAGCCCCGGCGGTGACCCCGCTGCAGATGCCCTGTATGTCTCCTTAAAGCATTCCGCTGGGCCCGCT  
GGCCCTGATCACCGACCCAGGACCTGTGGTGGAGGCGGGACGCGCTCTGTCCACAGCACTCAGGGCC  
CGGGTTTCCAGTTGCCCTAGTGACCTCCATGGTGCCTCAGACCTGTCTGGAGCCCGAGAGGCCCTCA  
GAAGGATCCGAGACGGGCTAGAGTTAGAGTGGTTATCATGGTATGCACTCGGTACTGTGGGCGGCGA  
GGAGCAGCGCTACCTACTGGAAGCTGCAGAAGAGCTGGGTCTGACTGATGGCTCCCTGGTCTTCCGCCC  
TTTGACACCTTCACTACGCGTTGTCTCCAGGCCCGGAGGCTCTGGCTGCATTTGTCAACAGCTCCAAGC  
TCCGACGGGCTCACGATGCGGTGCTCACGCTGACACGCCGCTGTCTCCTGGAGGCGAGCTGCAAGACAG  
CTTGCGCAGGGCCCAAGAACCAGGAGCTGCCCTTGACCTCGACCTGAAGCAGGTCTCTCCGCTGTTT  
GGCACCATCTATGATGCTGTCTTCTGTTGGCTGGGGCGTGACGAGAGCAAGAGCAGCAGTGGTGGCG  
GCTGGGTGTGAGGTGCATCTGTGGCCGCCAAATGCGGGAAGCTCAAGTCTTGGCTTTTGGGGATCCT  
GGGAAGAACCAGAGCCCTCCTTTGTGCTGCTGGACACAGATGCGGCAGGAGAACCGCTGTTACAACA  
CACCTGTGGATCCTGTCTTAGGCTCCCTGCCGTTCCGCTGGACCCCGTGCACCTCCCTAGAGGTGCAC  
CTGCTCCGGGTCGGATCCTTCCCTGCTGGTTCGATCCAGATGTGATCTGCAACGGAGGGGTGGAGCCAGG  
CCTGGTCTTGTGGCTTCTCCTGGTATAGTGGTGGGACTGACTGGAGCCTTCTGGCTCATTACTTG  
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CTTCTCCACCCACAAGGGGCGAGCTCTGAAAGGTGGCCAGGGAAGTAGATCCAGTCTGGCTACCCG  
GAGTACATCAGACATTGCGAGTGTCCCCAGCCAGCCCCAAGAGAGCACCAACATTGGCCTCTATGAGGGC



GACTGGGTTTGGCTGAAGAAATTTCCAGGAGAACCACATGGCCATCCGGCCGGCGACCAAGATGGCCT  
TCTCCAAGCTGCGGGAGCTCCGCCATGAGAATGTGGCTCTCTACCTGGGACTCTTCTGGCGGGTACAGC  
AGACAGCCCTGCCACCCCTGGGGAGGGAATCTTGGCTGTGGTCTCCGAGCACTGTGCTCGGGGCTCCCTC  
CATGACCTCTGGCCCAGAGAGACATAAAGCTGGACTGGATGTTCAAGTCTTCCCTCCTGCTGGACCTCA  
TAAAGGGAATGAGATACTCCACCATCGTGGTGTGGCCACGGGAGGCTTAAGTCACGGAATTGCGTGGT  
GGACGGGAGGTTCTGCTCAAGGTGACAGATCATGGCCACGGGCGACTTCTGGAAGCGCAGAGGGTTTTA  
CCCGAACCTCCCAGTGCAGAGGATCAGCTATGGACAGCCCCAGAGCTGCTTCGGGACCCAGCTCTAGAGA  
GACGGGGAACCTAGCTGGTGAAGTCTTTAGCCTGGGCATCATCATGCAGGAGGTCGTGTGCCGACGAC  
ACCTTATGCCATGCTGGAGCTAACGCCCGAGGAAGTGATACAGAGGGTGCAGGAGCCCTCCCCACTGTGC  
CGGCCCTTGGTGTCAATGGACCAGGCACCTATGGAATGCATCCAGCTGATGGCTCAATGTGGGAGAGC  
ATCCAGAGCTTCGGCCTTCCATGGACCTCACCTTTGACCTGTTCAAGGGCATCAACAAGGCGCGAAGAC  
GAACATCATTGACTCCATGCTTCGGATGCTGGAGCAGTACTCTAGTAACCTGGAGGACTTGATCCGAGAA  
CGCACAGAGGAGTTAGAGCAGGAGAAGCAGAAGACAGACAGGCTGCTCACACAGATGCTCCCTCCATCTG  
TGGCTGAGGCCCTGAAAATGGGACATCTGTGGAGCCTGAATACTTTGAAGAGGTGACACTCTATTTGAG  
TGACATTGTGGGCTTTACCACCATTTCCAGCCATGAGTGAGCCATTGAGGTGGTCGACCTGCTTAATGAC  
CTCTATACACTCTTTGATGCCATCATCGGTTCCACAGATGTCTATAAGGTGGAACAATGGAGATGCAT  
ACATGGTGGCCTCCGGGCTGCCACAGAGGAACGGGCAGCGCATGCTGCAGAGATTGCCAACATGCTCACT  
GGACATCCTCAGTGCAGTCGGCTCCTTCCGCATGCGCCATATGCCGGAGGTACCAGTGCAGCATCCGCATT  
GGTCTGCACTCGGGCCGTGCGTGGCCGGTGTGGTGGCCCTCACCATGCCTCGGTACTGCCTGTTTGGGG  
ACACGGTCAACTGCCTCACGAATGGAGTCCACTGGACTGCCTTATCGCATCCATGTAACATGAGCAC  
TGTTCCGATTCTTCGGCTCTGGACCAAGGCTTCCAGATGGAATGCCGAGGCCGACAGAGCTGAAGGGC  
AAGGGTGTGAGGACAGTACTGGCTTGTGGCAGAGTCGGCTTCAACAAGCCATTCCCAAACACCTG  
ACCTGCAACCAGGGGCCAGCAACCATGGCATCAGCTGCAGGAGATTCCCCAGAGAGACGCAAGAAGCT  
AGAGAAAGCCAGGCCAGGCCAGTTTACTGGGAAGTGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_024380
- Insert Size:** 3327 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\\_024380.1](#), [NP\\_077356.1](#)
- RefSeq Size:** 3545 bp

RefSeq ORF: 3327 bp

Locus ID: 79222

UniProt ID: [P51840](#)

Cytogenetics: 10q24

Gene Summary: an orphan membrane guanylyl cyclase [RGD, Feb 2006]