

Product datasheet for **RR208315**

Gucy1a3 (NM_017090) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy1a3 (NM_017090) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gucy1a3
Synonyms:	Gucy1a1; SGC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR208315 representing NM_017090
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCTGCAGGAAGTTCAAAGATCTCAAGATCACGGGGAGTGTCTTTCTCCTTACTGGCTCCTGGTC
AGGTTCTACGGAGCCAATAGAGGAGGTGGCCGGAGTCTCTGAGAGCTGCCAGGCCACTCTGCCACCTG
CCAGGAGTTTGCTGAGAATGCAGAAGGGAGTCAACCCAAAGAAAAGACAAGCCGCAACAGAGTCTACCTA
CACACCTGGCAGAGAGTATTGGCAAGCTCATTTTCCCAGAGTTTGGAGAGTGAACCTTGCACCTCAGA
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GCTTCAGCACGCTCCTGAAGCAGAGCAGCCACTGCCAGGAGCGGAGAGGCGGGGGCAGTGAAGATGC
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GCCTGCTTCTCCCGGTATCATTAAAGCGGCTGCTCGCATACTGTACGAAAGCCACGTGGAGGTGTCCC
TGATGCCTCCCTGCTTCCGAAGTGAAGTGTACCGAATTCGTGAACCAAGCCCTATTTGCTCTACTCGGTCCA
CGTGAAGAGCACAAGCCTTCTCTGTCCCAGGCAAACCCAGTCTCGTAGTGATCCCTACTTCTGCTC
TTCTGCAAAACTTTCCATTCCACTTATGCTGGACCGTGACCTGGCCATTCTGCAGCTGGGTAATGGCA
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TTTGTGTTCAACCGAGATCGAGGGAGGAGCTCCACCAAATTCCTAGTGACATTCTGGAATCTGTC
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TGGAAACGCTAATTCTTAGGCAAAGCATCAGGGGTAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208315 representing NM_017090
 Red=Cloning site Green=Tags(s)

MFCRKFKDLKITGECPFSLAPGQVPTPEIEEVAGVSESCQATLPTCQEF AENAEGSHQPQRKTSRNRVYL
 HTLAESIGKLIFPEFERLNLALQRTLAKHKIKENRNSSEKEDLERIIAEEAIAAGVPVEALKDSLGEELF
 KICYEEDHILGVVGGTLKDFLNSFSTLLKQSSHCOEAERRGRLEDA SILCLDKDQDFLNYYVFFPKRTT
 ALLLPGIKAAARILYESHVEVSLMPPCFRSECTEFVNQPYLLYSVHVKSTKPSLSPGK PQSSLVIPTSL
 FCKTFPFHFMLDRDLAILQLGNGIRRLVNRDFQGKPNFEEFF EILTPKINQTFSGIMTMLNMQFVIRVR
 RWDNLVKKSSRVMDLKGQMIYIVESSAILFLGSPCVDRLEDFTRGLYLSDIPIHNALRDVVLIGE QARA
 QDGLKKRLGKLGKATLEHAHQALEEEKKTVDLLCSI F PSEVAQQLWQQQIVQAKKFNEV TMLFSDIVGFT
 AICSQCSPLQVITMLNLYTRFDQQCGELDVYK VETIGDAYCVAGGLHRES DTHAVQIALMALKM MELS N
 EVMSPHGEPIMRIGLHSGSVFAGVVGVKMPRYCLFGNNVTLANKFESCSVPRKINVSPTTYRLLKDCPG
 FVFTPRSREELPPNFPSDIPGICHFLDAYQHQPNSK PWFQQKDAEDGNANFLGKASGVD

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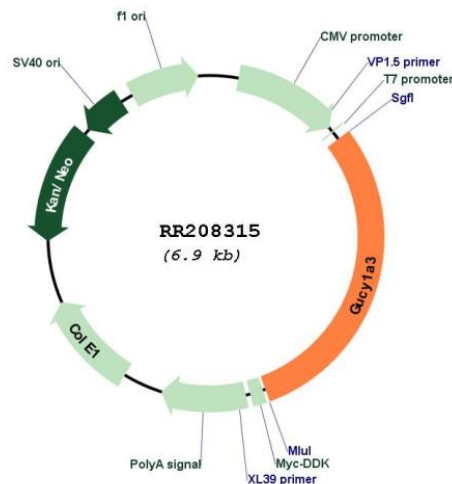
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017090

ORF Size: 2070 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_017090.2](#), [NP_058786.2](#)

RefSeq Size: 2666 bp

RefSeq ORF:	2073 bp
Locus ID:	497757
Cytogenetics:	2q34
MW:	77.5 kDa
Gene Summary:	soluble guanylate cyclase subunit that forms a heterodimer with Gucy1b3; may also function as an intracellular nitric oxide receptor [RGD, Feb 2006]