

Product datasheet for **RR202667**

Gucy1b3 (NM_012769) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy1b3 (NM_012769) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gucy1b3
Synonyms:	Gucy1b1; SGC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR202667 representing NM_012769
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACGGTTTTGTGAACCATGCCTGGAGCTGCTGGTATCCGCAATTACGGTCCCAGGTGTGGGAAG
 ACATCAAAAAAGAGGCGCAGCTGGATGAAGAAGGCCAGTTTCTTGTGAGAATAATCTACGATGATCCAA
 AACCTATGACTTGGTGGCTGCTGCGAGCAAAGTCTCAACCTCAATGCTGGTGAATCCTGCAGATGTTT
 GGAAGATGTTTTCTGCTTCTGTCAAGAGTCTGGCTATGATACCATCTTGCCTGCTGGGATCTAATG
 TCAGGGAGTTTTGCAGAACCTCGACGCCCTGCACGACCCTCGCCACCATCTACCCAGGGATGCGCGC
 ACCTTCTTCCGGTGCACCGATGCAGAAAAAGGCAAAGGGCTCATTCTGCACTACTACTCGGAAAGAGAG
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 CCGCCCTCATATTGACATCAGTTTCCACGGGATTTCTTTCACACATCAATACCGTCTTTGACTGAGAAGC
 AAGGAAGGGTGTGGATGTTGAGAACTTGAATGTGAGGATGAAGTACTGAGTGGGGCAGAGATTAGCTGCC
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 CACCATGCACGGTCCATTTGCCACCTGGCTTTAGACATGATGAAATGCTGGTCAAGTTCAAGTAGATG
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 AAGATAAACGTTTCCGAATATACATACAGGTGTCTCATGTCCCCAGAAAACCTCGGATCCACAGTCCACT
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 AAACACAGGCACAGAGGAAACAAACCAGGATGAAAAC

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Protein Sequence:

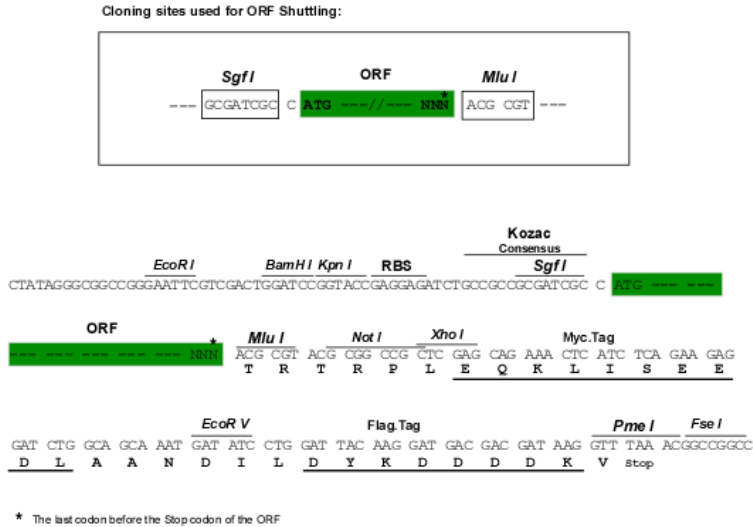
>RR202667 representing NM_012769
 Red=Cloning site Green=Tags(s)

MYGFVNHALELLVIRNYGPEVWEDIKKEAQLDEEGQFLVRIIYDDSKTYDLVAAASKVLNLNAGEILQMF
 GKMFVFCQESGYDTILRVLGNSVREFLQNLDALHDHLATIYPGMRAPSFRCDAEKGKGLILHYYSERE
 GLQDIVIGI IKTVAQQIHGTEIDMKVIQQRSECDHTQFLIEEKESKEEDFYEDLDRFEENGTDQSRISP
 YTFCKAFPFIHIFDRDLVVTQCGNAIYRVLPLQPGKCSLLSVFSLVRPHIDISFHGILSHINTVFLRS
 KEGLLDVEKLECEDELTAIEISCLRRLKGQMIYLPEDSILFLCSPSVMNLDL TRRGLYLSDIPLHDATR
 DLVLLGEQFREEYKLTQEILEILDRLQLTLRALEDEKKTDTLLYSVLPSPVANELRHKRPVPAKRYDNY
 TILFSGIVGFNAFCSKHASGEGAMKIVNLLNDLYTRFDLTLDSRKNPFVYKVVETVGDKYMTVSGLPEPCI
 HHARSICHLALDMMIEAGQVQVDGESVQITIGIHTGEVVTGVIGQRMPRYCLFGNTVNLTSRTETTGEK
 KINVSEYTYRCLMSPENS DPQFHLEHRGPVSMKGKKEPMQVWFLSRKNTGTEETNQDEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012769

ORF Size: 1857 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_012769.2](#), [NP_036901.2](#)

RefSeq Size: 3217 bp

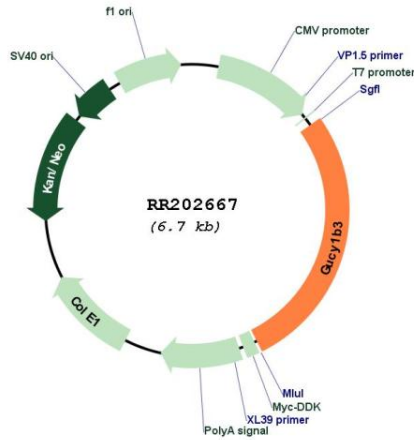
RefSeq ORF: 1860 bp

Locus ID: 25202

UniProt ID: [P20595](#)

Cytogenetics: 2q34
MW: 70.5 kDa
Gene Summary: subunit of soluble guanylate cyclase, which catalyzes the conversion of GTP to cyclic GMP [RGD, Feb 2006]

Product images:



Circular map for RR202667