

Product datasheet for **RR211048**

Gna11 (NM_031033) Rat Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Gna11 (NM_031033) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Gna11 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RR211048 representing NM_031033 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCTGGAGTCCATGATAGCGTGTTCCTGAGCGACGAGGTGAAGGAGTGAAGCGCATCAACGCGG
AGATCGAGAAACAGCTGCGGCGAGACAAGCGGACGCCCGGCGGAGCTCAAGTCTGCTTCTCGGCAC
TGGCGAGAGCGGGAAGAGCACCTTCATCAAGCAGATGCGCATCATCCATGGCGCCGGCTACTCGGAGGAG
GACAAACGCGGCTTCACAAAGCTGGTGTACCAGAACATCTCACCGCCATGCAGGCTGTGGTGCCGCTA
TGGACACGCTCAAGATCCGCTACAAGTATGAGCAGAACAAGGCCAATGCACTCCTGATCCGGGAGGTTGA
TGTGGAGAAGGTCACGACTTTTGAGCATCAGTATGTGAACGCCATCAAGACACTGTGGAGTGACCCGTGGT
GTCAGGAGTGCTACGATCGCAGGCGAGAGTTCAGCTCTCTGACTCGGCTAAGTACTACTTGACGGACG
TGGACCGCATCGCTACAGTAGGCTACCTGCCACCCAGCAGGATGTGCTGCGGGTACGTGTGCCACAAC
TGGCATCATCGAGTACCCGTTTGACCTGGAGAACATCATCTTCAGGATGGTGGATGTGGCGGGCAGAGG
TCAGAGCGCAGGAAGTGGATCCATTGCTTTGAGAATGTCACGTCCATCATGTTCTTGGTGGCATTAAAGC
AGTATGACCAGGTCCTGGTGGAGTCGGACAACGAGAACCAGGAGGAGCAAGGCCCTGTTCCGCAC
AATCATCACCTACCCCTGGTCCAGCACTCGTCTGTGATCCTCTCCTCAACAAGAAGGACCTTCTGGAA
GACAAGATCCTGCACTCACACTTGGTCGACTACTTCCCGAGTTCGATGGCCACAGAGGGACGCACAGG
CCGCCCGGAGTTCATCCTGAAGATGTTTGTGGATCTGAACCCCGACAGCGACAAGATCATCTACTCGCA
CTTCACCTGCGCCACGGACACCGAAAACATCCGCTTCGTGTTTGTGCCGTGAAGGACACCATCCTCGAC
CTGAACCTGAAGGAGTACAACCTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211048 representing NM_031033
Red=Cloning site Green=Tags(s)

MTLESMIACCLSDVEKESKRINAEIEKQLRRDKRDARRELKLLLLGTGESGKSTFIKQMRIIHGAGYSEE
DKRGFTKLVYQNIPTAMQAVVRAMDTLKIRYKYEQNKANALLIREVDVEKVTTFEHQYVNAIKTLWSDPG
VQECYDRRREFQLSDSAKYLLTDVDRIATVGYLPTQDVLRRVPTTGIIEYPFDLENIIFRMVDVGGQR
SERRKWIHCFENVTSIMFLVALSEYDQVLVESDNENRMEESKALFRTIITYPWFQHSSVILFLNKKDLLE
DKILHSHLVDFPEFDGPDQDAQAAREFILKMFVDLNPDSKIIYSHFTCATDTENIRFVFAAVKDTILQ
LNLKEYNLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3315_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

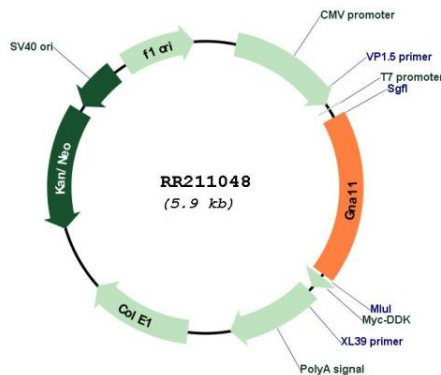
ACCN: NM_031033

ORF Size: 1077 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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| 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_031033.1</u> , <u>NP_112295.1</u> |
| RefSeq Size: | 1080 bp |
| RefSeq ORF: | 1080 bp |
| Locus ID: | 81662 |
| UniProt ID: | <u>Q9JID2</u> |
| Cytogenetics: | 7q11 |
| MW: | 42 kDa |
| Gene Summary: | may be involved in mediating second messenger signals from the endothelin receptor in adipocytes [RGD, Feb 2006] |

Product images:


Circular map for RR211048