

Product datasheet for **RR204438**

Gnb3 (NM_021858) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gnb3 (NM_021858) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gnb3
Synonyms: MGC105437
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204438 representing NM_021858
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGGGAGATGGAGCAGCTGAAGCAGGAGGGGAGCAGCTCAAGAAGCAGATTGCTGATGCCAGGAAAG
CCTGTGCGGACATCACTCTGGCTGAGCTTGTGTCTGGCCTGGAGGTGGTGGGACGAGTCCAGATGCGGAC
ACGGAGGACGTTAAGGGGACACCTGGCTAAGATCTATGCCATGCACTGGGCCACTGACTCTAAGCTGCTA
GTAAGTGCCTCGCAGGATGGGAAGCTGATCGTGTGGGACACTTACACCACCAATAAGGTGCATGCTATCC
CGCTGCGTTCCTCCTGGGTCATGACCTGTGCCTATGCACCATCAGGGAATTCGTGGCATGTGGGGGGCT
AGATAACATGTGCTCAATCTACAGCCTCAAATCCCGTGAGGGCAATGTCAAGGTCAGCCGGGAATCTCG
GCTCACACAGGTTATCTCTCCTGTTGCCGCTTCTCGGATGACAACAACATTGTGACTAGCTCTGGGGACA
CCACGTGTGCCTTGTGGGACATTGAGACGGGGCAGCAGAAGACAGTGTTTCGTGGGACACACTGGTGACTG
CATGAGCCTGGCTGTGTCCCGACTACAACTCTTCACTCGGGAGCTTGTGATGCCAGCGCCAAGCTC
TGGGATGTGAGGGAAGGGACCTGTGCCAGACTTCACTGGCCACGAGTCAGACATCAATGCTATCTGTT
TCTTTCCCAATGGGGAGGCCATCTGCATGGCTCAGATGATGCCCTCCTGCCGCTTTTGACCTGAGGGC
AGACCAGGAAGTACAGCCTACTCCACGAGAGCATCATCTGTGGCATCAGTCCGTAGCCTTCTCACTC
AGTGGTGCCTGCTCTTTGCTGGCTATGATGACTTCAACTGCAATGTCTGGGACTCTCTGAAGTGTGAGC
GTGTAGGCGTTCTTTCTGGCCATGACAACAGAGTCAGTTGCCTGGGGTTCACAGCTGACGGCATGGCTGT
GGCCACTGGATCCTGGGACAGCTTCTCAAGATCTGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204438 representing NM_021858
 Red=Cloning site Green=Tags(s)

MGEMQLKQAEQLKKQIADARKACADITLAEIVSGLEVVGVRVQMRTRRTLGRHLAKIYAMHWATDSKLL
 VSASQDGKLIWDTYTTNKVHA.IPLRSSWVMTCAYPNSGNFVACGGLDNMCSIYSLKSREGNVKVSRELS
 AHTGYLSCCRFLDDNNIVTSSGDITCALWDIETGQKTVFVGHGTDCMSLAVSPDYKLFISGACDASAKL
 WDVREGTCRQFTFGHESDINAICFFPNGEAICTGSDDASCRLFDLRADQELTAYSHEIIICGITSVAFSL
 SGRLLFAGYDDFNCNVWDSLKCERVGVLSGHDNRVSCLGVTADGMAVATGSWDSFLKIWN

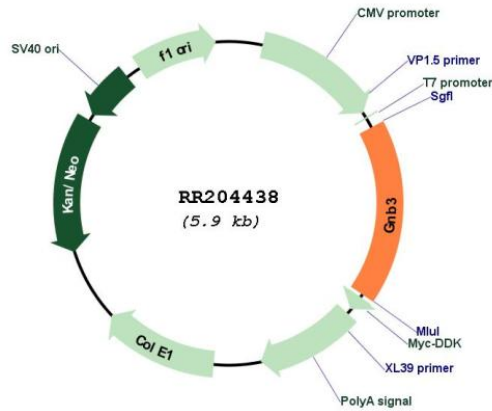
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021858

ORF Size: 1020 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:	<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:	NM_021858.3 , NP_068630.1
RefSeq Size:	1577 bp
RefSeq ORF:	1023 bp
Locus ID:	60449
UniProt ID:	P52287
Cytogenetics:	4q42
MW:	37.2 kDa
Gene Summary:	G-protein beta subunit expressed primarily in heart and also in brain [RGD, Feb 2006]