

Product datasheet for MR205102

Gnb1 (NM_001160017) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnb1 (NM_001160017) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnb1
Synonyms:	AA409223; C77571; Gnb-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205102 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAACCTTGACCAGCTGCGGCAGGAGGCCGAGCAACTGAAGAACCAAATTAGAGATGCTCGTAAAG
CGTGTGCCGATGCGACTCTTTCAGATCACAACAATATTGATCCAGTGGGAAGAATCCAAATGCGGAC
CAGGAGAACTGAGGGGCATCTGGCAAAGATTTATGCCATGCACTGGGCACAGACTCAAGGCTCCTT
GTCAGCGCCTCTCAGGATGGAAAACATCATCTGGGACAGTTATACCACAAACAAGGTTTCATGCCATCC
CTCTGCGCTCCTTGGGTCATGACCTGCGCATACGCTCCTTCTGGGAATTATGTGCCTGTGGTGGCCT
GGATAACATCTGCTCCATTTACAACCTGAAAACCTGTAAGGGAATGTGCGTGTGAGTCGTGAGCTGGCG
GGACACACAGGTTATCTGTCTGTTGCCGTTCTGGATGACAATCAGATAGTTACCAGTTCTGGAGACA
CCACATGTGCCCTGTGGGACATCGAGACTGGCCAGCAGACAACCACATTTACTGGACACACTGGAGATGT
CATGAGCCTGTCTTGTCTGCTGACACCAGACTGTTTGTCTCTGGTGTGATGCTTCAGCCAAGCTC
TGGGATGTCCGAGAAGGGATGTGCCGCGCAGACCTTTACAGGACACGAGTCTGACATCAATGCCATATGTT
TCTTTCCCAATGGCAATGCCTTTGCCACTGGCTCAGACGATGCCACATGCAGGCTGTTTGACCTCCGTGC
AGACCAGGAGCTCATGACCTACTCCCATGACAACATTATCTGTGGTATCATATCTGTTTCTTCTCCAAG
AGTGCCCGCCTCCTTGTGGGTATGATGACTTCAACTGTAATGTCTGGGATGCACTCAAAGCTGACA
GAGCAGGTGTCTTAGCTGGACACGACAACCGAGTCAGCTGTTGGGGTGACTGATGATGGCATGGCTGT
GGCAACAGGGTCTGGGACAGCTTCTCAAGATCTGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205102 protein sequence
Red=Cloning site Green=Tags(s)

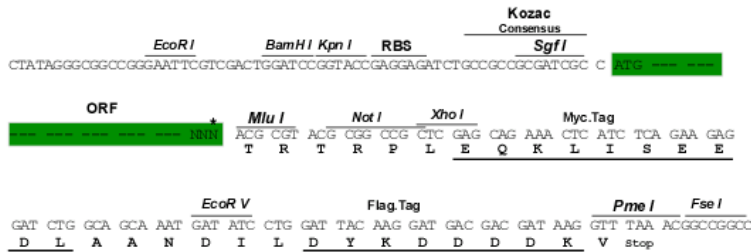
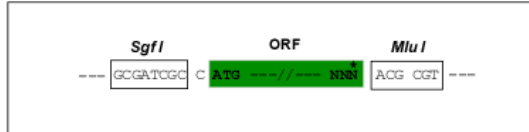
MSELDQLRQAEQLKNQIRDARKACADATLSQITNNIDPVGRIQMRTRRTLGRHLAKIYAMHWGTDSSRL
 VSASQDGLI IWDSYTTNKVHAIPLRSSWVMTCAYAPSGNYVACGGLDNICSIYNLKTREGNVRVSRELA
 GHTGYLSCCRFLDDNQIVTSSGDTTCALWDIETGQQTTFGTGTDVMSLSLAPDTRLFVSGACDASAKL
 WDVREGMCRQTFTHGESDINAICFFPNGNAFATGSDDATCRLFDLRADQELMTYSHDNIICGITSVSFSK
 SGRLLLAGYDDFNCNVWDALKADRAGVLAGHDNRVSLGVTDDGMAVATGSWDSFLKIWN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001160017

ORF Size: 1023 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_001160017.1](#), [NP_001153489.1](#)

RefSeq Size: 3091 bp

RefSeq ORF: 1023 bp

Locus ID: 14688

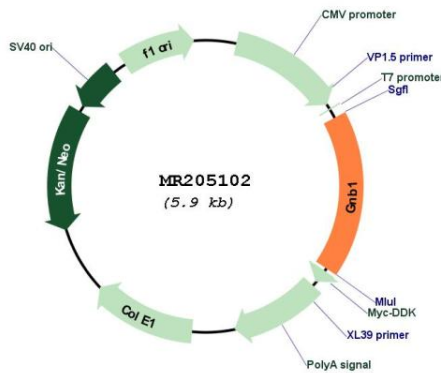
UniProt ID: [P62874](#)

Cytogenetics: 4 86.17 cM

MW: 37.4 kDa

Gene Summary: Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205102