

Product datasheet for **MG225895**

Gnb1 (NM_008142) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gnb1 (NM_008142) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gnb1
Synonyms: AA409223; C77571; Gnb-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225895 representing NM_008142
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTGAACCTTGACCAGCTGCGGCAGGAGGCCGAGCAACTGAAGAACCAAATTAGAGATGCTCGTAAAG
 CGTGTGCCGATGCGACTCTTTCTCAGATCACAACAATATTGATCCAGTGGGAAGAATCCAAATGCGGAC
 CAGGAGAACACTGAGGGGCATCTGGCAAAGATTTATGCCATGCACTGGGGCACAGACTCAAGGCTCCTT
 GTCAGCGCCTCTCAGGATGGAAAACATCATCTGGGACAGTTATACCACAAACAAGTTTCATGCCATCC
 CTCTGCGCTCCTTTGGGTCATGACCTGCGCATACGCTCCTTCTGGGAATTATGTGCCTGTGGTGGCCT
 GGATAACATCTGCTCCATTTACAACCTGAAAACCTCGTGAAGGGAATGTGCGTGTGAGTCGTGAGCTGGCC
 GGACACACAGGTTATCTGTCTGTTGCCGGTTCCTGGATGACAATCAGATAGTTACCAGTTCTGGAGACA
 CCACATGTGCCCTGTGGGACATCGAGACTGGCCAGCAGACAACCACATTTACTGGACACACTGGAGATGT
 CATGAGCCTGTCTTGTCTGCTGACACCAGACTGTTTGTCTCTGGTGCTTGATGCTTCAGCCAAGCTC
 TGGGATGTCCGAGAAGGGATGTGCCGCGCAGACCTTTACAGGACACGAGTCTGACATCAATGCCATATGTT
 TCTTTCCCAATGGCAATGCCTTTGCCACTGGCTCAGACGATGCCACATGCAGGCTGTTTGACCTCCGTGC
 AGACCAGGAGCTCATGACCTACTCCCATGACAACATTATCTGTGGTATCATATCTGTTTCCTTCTCCAAG
 AGTGCCCGCTCCTCCTTGCTGGGTATGATGACTCAACTGTAATGCTGGGATGCACTCAAAGCTGACA
 GAGCAGGTGTCTTAGCTGGACACGACAACCGAGTCAGCTGCTTGGGGTGACTGATGATGGCATGGCTGT
 GGCAACAGGGTCTGGGACAGCTTCTCAAGATCTGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225895 representing NM_008142
 Red=Cloning site Green=Tags(s)

MSELDQLRQEAQLKNQIRDARKACADATLSQITNNIDPVGRIQMRTRRTLGRHLAKIYAMHWGTD S RLL
 VSASQDGKLI IWDSYTTNKVHAIPLRSSWVMTCA YAPSGNYVACGGLDNICSIYNLKTREGNVRV S R E L A
 GHTGYLSCCRFLDDNQIVTSSGDTT CALWDIETGQQTTF T GHTGDVMSLSLAPDTRLFVSGACDASAKL
 WDVREGMCRQTF TG HESDINAICFFPNGNAFATGSDDATCRLFDLRADQELMTYSHDNIICGITSVSF SK
 SGRLLLAGYDDFNCNVWDALKADRAGVLAGHDNRV SCLGVTDDGMAVATGSWDSFLKIWN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008142

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:

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_008142.4](#), [NP_032168.1](#)

RefSeq Size: 3143 bp

RefSeq ORF: 1023 bp

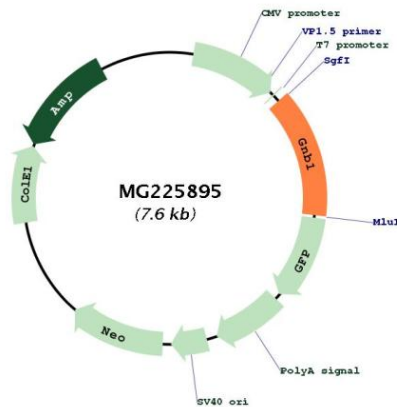
Locus ID: 14688

UniProt ID: [P62874](#)

Cytogenetics: 4 86.17 cM

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 MG225895