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Product datasheet for MR225896

Gnb1 (NM_001160016) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnb1 (NM_001160016) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnb1
Synonyms:	AA409223; C77571; Gnb-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR225896 representing NM_001160016 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGAACTTGACCAGCTGCGGCAGGAGGCCGAGCAACTGAAGAACCAAATTAGAGATGCTCGTAAAG CGTGTGCCGATGCGACTCTTTCTCAGATCACAAACAATATTGATCCAGTGGGAAGAATCCAAATGCGGAC CAGGAGAACACTGAGGGGGCATCTGGCAAAGATTTATGCCATGCACTGGGGCACAGACTCAAGGCTCCTT GTCAGCGCCTCTCAGGATGGAAAACTCATCATCTGGGACAGTTATACCACAAACAAGGTTCATGCCATCC CTCTGCGCTCCTCTTGGGTCATGACCTGCGCATACGCTCCTTCTGGGAATTATGTGGCCTGTGGTGGCCT GGATAACATCTGCTCCATTTACAACCTGAAAACTCGTGAAGGGAATGTGCGTGTGAGTCGTGAGCTGGCG GGACACACAGGTTATCTGTCCTGTTGCCGGTTCCTGGATGACAATCAGATAGTTACCAGTTCTGGAGACA CCACATGTGCCCTGTGGGACATCGAGACTGGCCAGCAGACAACCACATTTACTGGACACACTGGAGATGT CATGAGCCTGTCTCTTGCTCCTGACACCAGACTGTTTGTCTCTGGTGCTTGTGATGCTTCAGCCAAGCTC TGGGATGTCCGAGAAGGGATGTGCCGGCAGACCTTTACAGGACACGAGTCTGACATCAATGCCATATGTT TCTTTCCCAATGGCAATGCCTTTGCCACTGGCTCAGACGATGCCACATGCAGGCTGTTTGACCTCCGTGC AGACCAGGAGCTCATGACCTACTCCCATGACAACATTATCTGTGGTATCACATCTGTTTCCTTCTCCAAG AGTGGCCGCCTCCTCCTTGCTGGGTATGATGACTTCAACTGTAATGTCTGGGATGCACTCAAAGCTGACA GAGCAGGTGTCTTAGCTGGACACGACAACCGAGTCAGCTGCTTGGGGGTGACTGATGATGGCATGGCTGT GGCAACAGGGTCCTGGGACAGCTTCCTCAAGATCTGGAAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

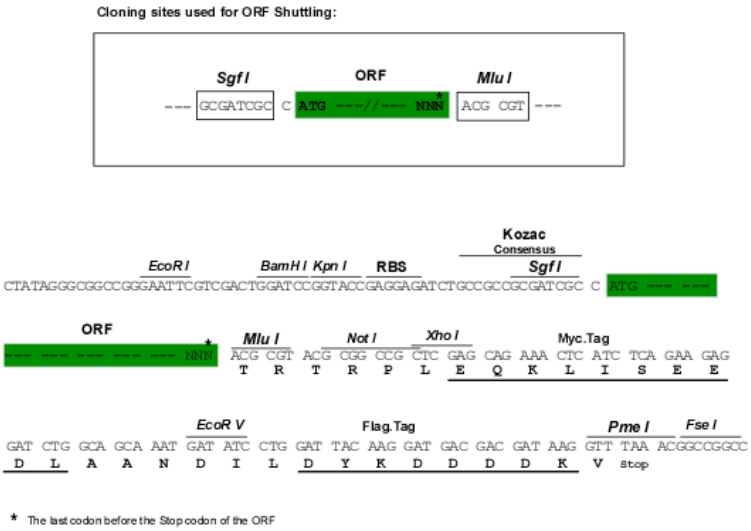
>MR225896 representing NM_001160016
Red=Cloning site Green=Tags(s)

MSELDQLRQEAEQLKNQIRDARKACADATLSQITNNIDPVGRIQMRTRRTLRGHLAKIYAMHWGTDSRLL
VSASQDGKLIIWDSYTTNKVHAIPLRSSWVMTCAYAPSGNYVACGGLDNICSIYNLKTREGNVRVSRELA
GHTGYLSCCRFLDDNQIVTSSGDTTCALWDIETGQQTTTFTGHTGDVMSLSLAPDTRLFVSGACDASAKL
WDVREGMCRQTFTGHESDINAICFFPNGNAFATGSDDATCRLFDLRADQELMTYSHDNIICGITSVSFSK
SGRLLLAGYDDFNCNVWDALKADRAGVLAGHDNRVSCLGVTDDGMAVATGSWDSFLKIWN

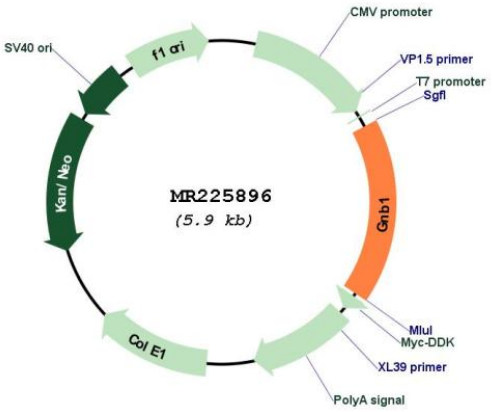
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001160016

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_001160016.1, NP_001153488.1
RefSeq Size:	3140 bp
RefSeq ORF:	1023 bp
Locus ID:	14688
UniProt ID:	P62874
Cytogenetics:	4 86.17 cM
MW:	37.8 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]