

## Product datasheet for **RC236839**

### **GNB1 (NM\_001282538) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GNB1 (NM\_001282538) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** GNB1  
**Synonyms:** MDS; MRD42  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236839 representing NM\_001282538  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTGTGCATATGCCCTTCTGGAACTATGTGCCCTGCGGTGGCCTGGATAACATTTGCTCCATTT  
ACAATCTGAAAACCTCGTGAGGGGAACGTGCGCGTGAGTCGTGAGCTGGCAGGACACACAGTTACCTGTC  
CTGCTGCCGATTCTGGATGACAATCAGATCGTCACCAGCTCTGGAGACACCACGTGTGCCCTGTGGGAC  
ATCGAGACCGGCCAGCAGACGACCACGTTTACCGACACACTGGAGATGTCATGAGCCTTTCTTCTGCTC  
CTGACACCAGACTGTTCTGCTCTGGTGCTGTGATGCTTCAGCCAACTCTGGGATGTGCCGAGAAGGCAT  
GTGCCGGCAGACCTTCACTGGCCACGAGTCTGACATCAATGCCATTTGCTTCTTTCCAAATGGCAATGCA  
TTTGCCACTGGCTCAGACGACGCCACCTGCAGGCTGTTTGACCTTCGTGCTGACCAGGAGCTCATGACTT  
ACTCCCATGACAACATCATCTGCGGGATCACCTCTGTCTCCTTCTCCAAGAGCGGGCGCCTCCTCCTTGC  
TGGGTACGACGACTTCAACTGCAACGTCTGGGATGCACTCAAAGCCGACCGGGCAGGTGTCTTGGCTGGG  
CATGACAACCGCGTCAGCTGCTGGGCGTGACTGACGATGGCATGGCTGTGGCGACAGGGTCTGGGATA  
GCTTCTCAAGATCTGGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC236839 representing NM\_001282538  
Red=Cloning site Green=Tags(s)

MTCAYAPSGNYVACGGLDNICSIYNLKTREGNVRVSRELAGHTGYLSCCRFLDDNQIVTSSGDTTCALWD  
 IETGQQTTTFTGHTGDVMSLSLAPDTRLFVSGACDASAKLWDVREGMCRQFTTGHESDINAICFFPNGNA  
 FATGSDDATCRLFDLRADQELMTYSHDNIICGITSVSFSKSGRLLLAGYDDFNCNVWDALKADRAGVLAG  
 HDNRVSLGVTDDGMAVATGSWDSFLKIWN

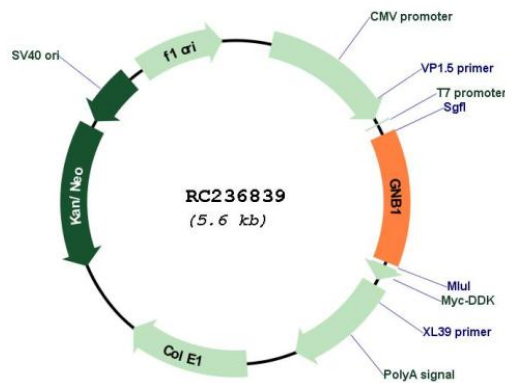
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001282538  
**ORF Size:** 720 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001282538.1</a> , <a href="#">NP_001269467.1</a>
<b>RefSeq Size:</b>	3054 bp
<b>RefSeq ORF:</b>	723 bp
<b>Locus ID:</b>	2782
<b>UniProt ID:</b>	<a href="#">P62873</a>
<b>Cytogenetics:</b>	1p36.33
<b>Protein Pathways:</b>	Chemokine signaling pathway, Taste transduction
<b>MW:</b>	26.4 kDa
<b>Gene Summary:</b>	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]