

## Product datasheet for **RG236839**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GNB1 (NM_001282538) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNB1
Synonyms:	MDS; MRD42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236839 representing NM_001282538. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCTGTGCATATGCCCTTCTGGGAACTATGTGGCCTGCGGTGGCCTGGATAACATTTGCTCCATT
TACAATCTGAAAACCTCGTGAGGGGAACGTGCGCGTGAGTCGTGAGCTGGCAGGACACACAGGTTACCTG
TCCTGCTGCCGATTCTGGATGACAATCAGATCGTCACCAGCTCTGGAGACACCACGTGTGCCCTGTGG
GACATCGAGACCGCCAGCAGACGACCAGTTTACCGGACACACTGGAGATGTCATGAGCCTTTCTCTT
GCTCCTGACACCAGACTGTTCTGCTCTGGTGCTTGTGATGCTTCAGCCAACTCTGGGATGTGCGAGAA
GGCATGTGCCGGCAGACCTTCACTGGCCACGAGTCTGACATCAATGCCATTTGCTTCTTTCCAAATGGC
AATGCATTTGCCACTGGCTCAGACGACGCCACCTGCAGGCTGTTTGACCTTCGTGCTGACCAGGAGCTC
ATGACTTACTCCCATGACAACATCATCTGCGGGATCACCTCTGTCTCCTTCTCCAAGAGCGGGCGCCTC
CTCCTTGCTGGGTACGACGACTTCAACTGCAACGTCTGGGATGCACTCAAAGCCGACCGGGCAGGTGTC
TTGGCTGGGATGACAACCGCTCAGCTGCCTGGGCGTGACTGACGATGGCATGGCTGTGGCGACAGGG
TCCTGGGATAGCTTCTCAAGATCTGGAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG236839  
 Blue=ORF Red=Cloning site Green=Tag(s)

MTCAYAPSGNYVACGGLDNICSIYNLKTREGNVRVSRELAGHTGYLSCCRFLDDNQIVTSSGDTTCALW  
 DIETGQQTTFGTGTDVMSLSLAPDTRLFVSGACDASAKLWDVREGMCRQFTTGHESDINAICFFPNG  
 NAFATGSDDATCRLFDLRADQELMTYSHDNIICGITSVSFSKSGRLLLAGYDDFNCNVWDALKADRAGV  
 LAGHDNRVSLGVTDDGMAVATGSWDSFLKIWN  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282538

**ORF Size:** 720 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).

**RefSeq:** [NM\\_001282538.1](#), [NP\\_001269467.1](#)

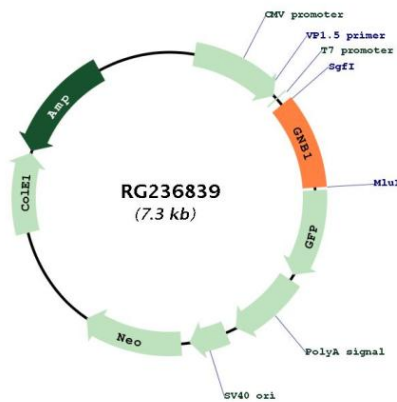
**RefSeq Size:** 3054 bp

**RefSeq ORF:** 723 bp

**Locus ID:** 2782  
**UniProt ID:** [P62873](#)  
**Cytogenetics:** 1p36.33  
**Protein Pathways:** Chemokine signaling pathway, Taste transduction  
**MW:** 26.4 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for RG236839