

Product datasheet for **RG237570**

GNB1 (NM_001282539) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | GNB1 (NM_001282539) 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: | >RG237570 representing NM_001282539. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGTGAGCTTGACCAGTTACGGCAGGAGGCCGAGCAACTTAAGAACCAGATTCGAGACGCCAGGAAA
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CTCGTCAGTGCCTCGCAGGATGGTAACTTATCATCTGGGACAGCTACACCACCAACAAGTCCACGCC
ATCCCTCTGCGCTCCTCCTGGGTCATGACCTGTGCATATGCCCTTCTGGGAACATATGTGGCCTGCGGT
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GGAGACACCACGTGTGCCCTGTGGGACATCGAGACCGGCCAGCAGACGACCACGTTTACCGGACACACT
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GCCATTTGCTTCTTTCCAATGGCAATGCATTTGCCACTGGCTCAGACGACGCCACCTGCAGGCTGTTT
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CTCAAAGCCGACCGGGCAGGTGTCTTGGCTGGGCATGACAACCGGTGAGCTGCTGGCCGTGACTGAC
GATGGCATGGCTGTGGCGACAGGTCCTGGGATAGCTTCTCCTCAAGATCTGGAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237570
 Blue=ORF Red=Cloning site Green=Tag(s)

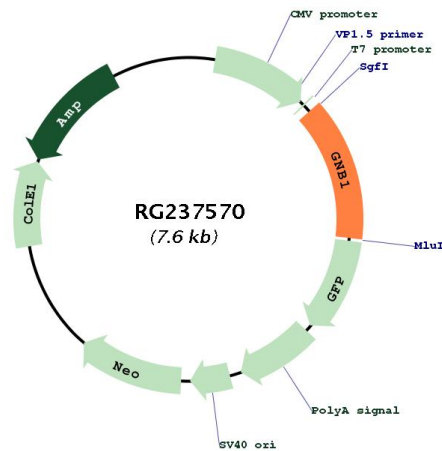
MSELDQLRQAEQLKNQIRDARKACADATLSQITNNIDPVGRIQMRTRRTLRGHLAKIYAMHWGTD SRL
 LVSASQDGLIIWDSYTTNKVHAIPLRSSWVMT CAYAPSGNYVACGLDNICSIYNLKTREGNVRVSRE
 LAGHTGYLSCCRFLDDNQIVTSSGDTTCALWDIETGQQTTF TGHTGDVMSLSLAPDTRLFVSGACDAS
 AKLWDVREGMCRQTF TGHESDINAICFFPNGNAFATGSDDATCRLFDLRADQELMTYSHDNIICGITSV
 SFKSGRLLLAGYDDFNCNVWDALKADRAGVLAGHDNRV SCLGVTDDGMAVATGSWDSFLKIWN
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282539

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|--------------------------|---|
| 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). |
| RefSeq: | NM_001282539.2 |
| RefSeq Size: | 3151 bp |
| RefSeq ORF: | 1023 bp |
| Locus ID: | 2782 |
| UniProt ID: | P62873 |
| Cytogenetics: | 1p36.33 |
| Protein Pathways: | Chemokine signaling pathway, Taste transduction |
| MW: | 37.4 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] |