

## Product datasheet for SC335459

### GNB3 (NM\_001297571) Human Untagged Clone

#### Product data:

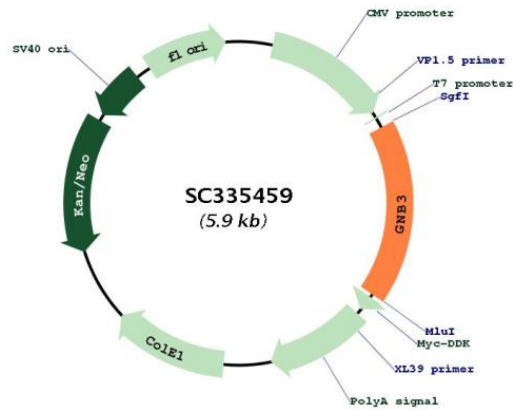
|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | GNB3 (NM_001297571) Human Untagged Clone   |
| Tag:                      | Tag Free   |
| Symbol:                   | GNB3   |
| Synonyms:                 | CSNB1H   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >SC335459 representing NM_001297571.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGGAGATGGAGCAACTGCGTCAGGAAGCGGAGCAGCTCAAGAAGCAGATTGCAGATGCCAGGAAA
GCCTGTGCTGACGTTACTCTGCCAGAGCTGGTGTCTGGCCTAGAGGTGGTGGGACGAGTCCAGATGCGG
ACGCGGCGGACGTTAAGGGGACACCTGGCCAAGATTTACGCCATGCACTGGGCCACTGATTCTAAGCTG
CTGGTAAGTGCCTCGCAAGATGGGAAGCTGATCGTGTGGGACAGCTACACCACCAACAAGGTGCACGCC
ATCCCACTGCGCTCCTCCTGGGTCATGACCTGTGCCTATGCCCCATCAGGGAACCTTTGTGGCATGTGGG
GGGCTGGACAACATGTGTTCCATCTACAACCTCAAATCCCGTGAGGGCAATGTCAAGGTCAGCCGGGAG
CTTTCTGCTCACACAGGTTATCTCTCCTGCTGCCGCTTCCCTGGATGACAACAATATTGTGACCAGCTCG
GGGACACCACTGCCTTGTGGGACATTGAGACTGGGCAGCAGAAGACTGTATTTGTGGGACACACGGGT
GACTGCATGAGCCTGGCTGTGTCTCCTGACTTCAATCTCTTCAATTTGGGGGCTGTGATGCCAGTGCC
AAGCTCTGGGATGTGCGAGAGGGGACCTGCCGTCAGACTTTCCTGAGCCAGAGTCCGGACATCAACGCC
ATCTGTTTCTTCCCAATGGAGAGGCCATCTGCACGGGCTCGGATGACGCTTCTGCCGCTTGTGGTAC
CTGCGGGCAGACCAGGAGCTGATCTGCTTCTCCACGAGAGCATCATCTGCGGCATCAGTCCGTTGGCC
TTCTCCCTCAGTGGCCGCTACTATTGCTGGCTACGACGACTTCACTGCAATGTCTGGGACTCCATG
AAGTCTGAGCGTGTGGGATCCTCTGCGCCACGATAACAGGTGAGCTGCCTGGGAGTCACAGCTGAC
GGGATGGCTGTGGCCACAGGTTCTGGGACAGCTTCTCAAATCTGGAACGTA
ACGCGTACGCGGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001297571

**Insert Size:** 1020 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001297571.1](#)

**RefSeq Size:** 1757 bp

**RefSeq ORF:** 1020 bp

**Locus ID:** 2784

**UniProt ID:** [P16520](#)

**Cytogenetics:** 12p13.31

|                          |  |
|--------------------------|--|
| <b>Protein Families:</b> | Druggable Genome   |
| <b>Protein Pathways:</b> | Chemokine signaling pathway, Taste transduction  |
| <b>MW:</b>               | 37.1 kDa   |
| <b>Gene Summary:</b>     | <p>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 which belongs to the WD repeat G protein beta family. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. A single-nucleotide polymorphism (C825T) in this gene is associated with essential hypertension and obesity. This polymorphism is also associated with the occurrence of the splice variant GNB3-s, which appears to have increased activity. GNB3-s is an example of alternative splicing caused by a nucleotide change outside of the splice donor and acceptor sites. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site, in the central coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p> |