

Product datasheet for RC200470L2

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GNB3 (NM_002075) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: GNB3 (NM_002075) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: GNB3

Synonyms: CSNB1H

Mammalian Cell

Selection:

Vector: pLenti-C-mGFP (PS100071)

None

E. coli Selection: Chloramphenicol (34 ug/mL)

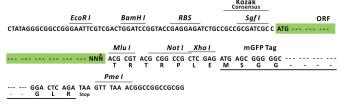
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC200470).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



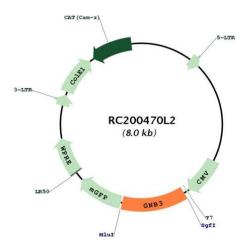


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_002075 **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: <u>NM 002075.2</u>

RefSeq Size: 1760 bp RefSeq ORF: 1023 bp



GNB3 (NM_002075) Human Tagged Lenti ORF Clone - RC200470L2

 Locus ID:
 2784

 UniProt ID:
 P16520

 Cytogenetics:
 12p13.31

Protein Families: Druggable Genome

Protein Pathways: Chemokine signaling pathway, Taste transduction

MW: 37.3 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 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]