

Product datasheet for **SC122616**

GNB3 (NM_002075) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNB3 (NM_002075) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNB3
Synonyms:	CSNB1H
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002075 edited
 TGGGCAGGTGACGGGCGGGCGGGCGTGCAGCTGAGGGAGTAAGGAGGCTCCCAGGAA
 CCGGAGCTGAAAACCCGGCCGAGGTCCAGCCAGAGCCCAAGAGCCAGAGTGACCCCTCGA
 CCTGTCAGCCATGGGGGAGATGGAGCAACTGCGTCAGGAAGCGGAGCAGCTCAAGAAGCA
 GATTGCAGATGCCAGGAAAGCCTGTGCTGACGTTACTCTGGCAGAGCTGGTGTCTGGCCT
 AGAGGTGGTGGGACGAGTCCAGATGCGGACGCGGGACGTTAAGGGGACACCTGGCCAA
 GATTTACGCCATGCACTGGGCCACTGATTCTAAGCTGCTGGTAAGTGCCCTCGCAAGATGG
 GAAGTGATCGTGTGGGACAGCTACACCACCAACAAGGTGCACGCCATCCCACTGCGCTC
 CTCCTGGGTGATGACCTGTGCTATGCCCATCAGGGAACCTTTGTGGCATGTGGGGGGCT
 GGACAACATGTGTTCCATCTACAACCTCAAATCCCGTGAGGGCAATGTCAAGGTGAGCCG
 GGAGCTTTCTGCTCACACAGTTATCTCTCTGCTGCCGTTCTGGATGACAACAATAT
 TGTGACCAGCTCGGGGACACCAGTGTGCCTTGTGGGACATTGAGACTGGGCAGCAGAA
 GACTGTATTTGTGGGACACCGGTGACTGCATGAGCCTGGCTGTGTCTCCTGACTTCAA
 TCTCTTCAATTCGGGGGCTGTGATGCCAGTGCCAAGCTCTGGGATGTGCGAGAGGGGAC
 CTGCCGTGAGACTTTCACTGGCCAGAGTCGGACATCAACGCCATCTGTTTCTTCCCAA
 TGGAGAGGCCATCTGCACGGGCTCGGATGACGCTTCTGCGCTTGTGTTGACCTGCGGGC
 AGACCAGGAGCTGATCTGCTTCTCCACGAGAGCATCATCTGCAGCATACGTCCTGGC
 CTTCTCCCTCAGTGGCCGCTACTATTGCTGGCTACGACGACTTCAACTGCAATGTCTG
 GGACTCCATGAAGTCTGAGCGTGTGGGCATCCTCTCTGGCCACGATAACAGGGTGAGCTG
 CCTGGGAGTCACAGCTGACGGGATGGCTGTGGCCACAGTTTCTGGGACAGCTTCTCAA
 AATCTGGAAGTGAAGGAGCTGGAGAAAGGAAGTGAAGGCAGTGAACACACTCAGCAGC
 CCCCTGCCGACCCCATCTCATTGAGTGTCTCTTCTATATTCGGGTGCCATTTCCAC
 TAAGCTTTCTCCTTTGAGGGCAGTGGGAGCATGGGACTGTGCCTTTGGGAGGCAGCATC
 AGGGACACAGGGGCAAAGAAGTCCCATCTCCTCCCATGGCCTTCCCTCCACAGTCC
 TCACAGCCTCTCCCTTAATGAGCAAGGACAACCTGCCCTCCACGCCCTTTGCAGGCC
 AGCAGACTTGAGTCTGAGGCCAGGCCCTAGGATTCTCCCCAGAGCCACTACCTTTG
 TCCAGGCCTGGTGGTATAGGGCGTTTGGCCCTGTGACTATGGCTCTGGCACCCTAGGG
 TCCTGGCCCTCTTCTTATTCATGCTTTCTCCTTTTCTACCTTTTTTCTCCTAAGAC
 ACCTGCAATAAAGTGTAGCACCTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002075 unedited
 NGGGAATGCGGTACGGAATTTGTNATACGACTCATATAGGCGGCCGNAATTCGCACGA
 GGTGGGACAGTGACGGGCGGGCGGGCGTGCAGCTGAGGGAGTAAGGAGGCTCCCAGG
 AACCGGAGCTGAAAACCCGGCCGAGGTCCAGCCAGAGCCCAAGAGCCAGAGTGACCCCTC
 GACCTGTCAGCCATGGGGGAGATGGAGCAACTGCGTCAGGAAGCGGAGCAGCTCAAGAAG
 CAGATTGCAGATGCCAGGAAAGCCTGTGCTGACGTTACTCTGGCAGAGCTGGTGTCTGGC
 CTAGAGGTGGTGGGACGAGTCCAGATGCGGACGCGGGCAGGTTAAGGGGACACCTGGCC
 AAGATTTACGCCATGCACTGGGCCACTGATTCTAAGCTGCTGGTAAGTGCCCTCGCAAGAT
 GGAAGCTGATCGTGTGGGACAGCTACACCACCAACAAGGTGCACGCCATCCCACTGCGC
 TCCTCCTGGGTGATGACCTGTGCCTATGCCCATCAGGGAACCTTTGTGGCATGTGGGGG
 CTGGACAACATGTGTTCCATCTACAACCTCAAATCCCGTGAGGGCAATGTCAAGGTGAGC
 CGGGAGCTTTCTGCTCACACAGTTATCTCTCTGCTGCCGTTCTGGATGACAACAAT
 ATTGTGACCAGCTCGGGGACACCAGTGTGCCTTGTGGGACATTGAGACTGGGCAGCAG
 AAGACTGTATTTGTGGGACACCGGTGACTGCATGAGCCTGGCTGTGTCTCCTGACTTC
 AATCTCTTCAATTTGGGGGCTGTGATGCCAGTGCCAAGCTCTGGGATGTGCGAGAGGG
 GACCTGCCGTGAGACTTTCACTGGCCACGAGTCCGACATCAA

Restriction Sites: Please inquire
ACCN: NM_002075
Insert Size: 1724 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:	<ol style="list-style-type: none">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_002075.2 , NP_002066.1
RefSeq Size:	1923 bp
RefSeq ORF:	1023 bp
Locus ID:	2784
UniProt ID:	P16520
Cytogenetics:	12p13.31
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway, Taste transduction
Gene Summary:	<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 (1) represents the longer transcript and encodes the longer isoform (1).</p>