

## Product datasheet for **SC319899**

### **GNB2 (NM\_005273) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GNB2 (NM_005273) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_005273.2  
 GATCCCTCCGCTCTGGGGAGGCAGCGCTGGCGGCGGGGCTGGGGCCACTGAGGAAATCCA  
 TCCGCGCCGCGCCGCGCCGCGCCGCGCCGCGCCGCGCTCCGCGCGGAGGAAGACAGCG  
 CCGCCCGCGCACCCGCCAGCGACCCCGCCGAGAGTCCCACCGCCACAGGCCTCGGGCCA  
 GCGGCCAGGAGCTGCCTCCCCAGCCCCGTCCGCGGCCCCAGCCGCCCAACCTG  
 CCCCACGGGCCCGGCCATGAGTGAGCTGGAGCAACTGAGACAGGAGGCCGAGCAGCTC  
 CGGAACCAGATCCGGGATGCCGAAAAGCATGTGGGACTCAACTGACCCAGATCACA  
 GCTGGGCTGGACCCAGTGGGGAGAATCCAGATGAGGACCCGAGGACCCTCCGTGGGCAC  
 CTGGCAAAGATCTATGCCATGCACTGGGGACCGACTCAAGGCTGCTGGTCAAGCCTCC  
 CAGGATGGGAAGCTCATCATCTGGGACAGCTACACCACCAACAAGGTCCACGCCATCCCG  
 CTGCGCTCCTCTGGGTAATGACCTGTGCCTACGCGCCCTCAGGGAACCTTGTGGCTGT  
 GGGGGTTGGACAACATCTGCTCCATCTACAGCCTCAAGACCCGCGAGGGCAACGTCAGG  
 GTCAGCCGGGAGCTGCCTGGCCACTGGGTACCTGTCGTGTTGCCGCTTCTGGATGAC  
 AACCAAATCATACCAGCTCTGGGGATACCACCTGTGCCCTGTGGGACATTGAGACAGGC  
 CAGCAGACAGTGGGTTTTGCTGGACACAGTGGGGATGTGATGTCCTGTCCCTGGCCCC  
 GATGGCCGCACGTTTGTGTCAGGCGCCTGTGATGCCTTATCAAGCTGTGGGACGTGCGG  
 GATTCCATGTGCCGACAGACCTTCATCGGCCATGAATCCGACATCAATGCAGTGGCTTTC  
 TTCCCAACGGCTACGCCTTACCACCGGCTCTGACGACGCCACGTGCCGCTCTTCGAC  
 CTGCGGGCCGATCAGGAGCTCCTCATGTACTCCATGACAACATCATCTGTGGCATCACC  
 TCTGTTGCCTTCTCGCGCAGCGGACGGCTGCTGCTCGTGGTACGACGACTTCAACTGC  
 AACATCTGGGATGCCATGAAGGGCGACCGTGCAGGAGTCTCGCTGGCCACGACAACCGC  
 GTGAGCTGCCTTGGGGTACCCGACGATGGCATGGCTGTGGCCACGGGCTCCTGGGACTCC  
 TTCCCTCAAGATCTGGAATAATGGCCCCACCCCACTGGGCCACGGCCAGGAGGGGCCCT  
 GCCATGCCACACTACAGGCCAGGGCTGCGGGGCTGGCGCAATCCAGCCCCCTTCCCC  
 GGGCCACGGGCCCTTGGGTCCCTGCCCTCCCACCCAGTTTGGTTCTCCCGGGGCCCC  
 ACTGTGGAGATAAGAAGGGGATGGAATGGGGGAAGAGGAGGAGCAGGAGGCCCTCATCT  
 TCTGCTGCCCTGGGGTTGGGCCCTACCCCTCTGGAGGGCCGAGGCAGGAGGTGAAAC  
 CCCAGGGGCTGGCTTTTTAAACTGGTTTTATTTAATTTTTATTATTTTTTCAGTTTT  
 TCCATAAAGGAGCCAATCCAACCTGTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_005273

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005273.2</a> , <a href="#">NP_005264.2</a>
<b>RefSeq Size:</b>	1666 bp
<b>RefSeq ORF:</b>	1023 bp
<b>Locus ID:</b>	2783
<b>UniProt ID:</b>	<a href="#">P62879</a>
<b>Cytogenetics:</b>	7q22.1
<b>Domains:</b>	WD40
<b>Protein Pathways:</b>	Chemokine signaling pathway
<b>Gene Summary:</b>	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. This gene contains a trinucleotide (CCG) repeat length polymorphism in its 5' UTR. [provided by RefSeq, Jul 2008]