

Product datasheet for **SC112904**

G protein beta 4 (GNB4) (NM_021629) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein beta 4 (GNB4) (NM_021629) Human Untagged Clone
Tag:	Tag Free
Symbol:	G protein beta 4
Synonyms:	CMTD1F
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112904 sequence for NM_021629 edited (data generated by NextGen Sequencing)

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ATGAGCGAACTGGAACAGTTGAGGCAAGAAGCAGAACAACCTGCGGAATCAGATTCAGGAT
GCTCGGAAAGCATGTAATGATGCAACGCTTGTTTCAGATTACATCAAATATGGACTCCGTG
GGTCAATACAAATGCGAACAAGACGTACACTGAGGGGCCACCTAGCTAAAATCTATGCT
ATGCATTGGGGATACGATTCCAGGCTGCTAGTCAGTGCTTCTCAAGATGGAAAATTAATT
ATTTGGGATAGCTATAACAATAAGATGCATGCTATTCCTTTGAGGTCCTCCTGGGTG
ATGACCTGTGCTTATGCTCCCTCTGGTAATTATGTTGCCGTGGAGGCTTGGACAACATC
TGCTCTATATAACTTAAAGACCAGAGAGGGAAATGTGAGAGTAAGCCGAGAGTTGCCA
GGTCACACAGGGTACTTGTCTGCTGTCGTTTTTTAGATGACAGCCAAATGTTACAAGT
TCAGGAGATACAACCTTGTCTTTATGGGACATCGAAACTGCCAGCAGACCACCACATTC
ACTGGGCATTCTGGAGATGTGATGAGTCTTTCTTTGAGTCCTGACATGAGGACTTTTGTT
TCTGGTGCTTGTGATGCCTCTTCCAAATTATGGGATATTCGAGATGGAATGTGTAGACAG
TCTTTCACGGGACATGTCTCAGATATCAATGCTGTGAGTTTTTCCCAAATGGATATGCC
TTCGCCACTGGCTCTGATGATGCCACTTGCCGGCTCTTTGACCTTCGTGCAGATCAAGAG
TTATTATTGATTCTCATGACAATATCATCTGTGGAATCACTTCTGTAGCCTTCTCAAAA
AGTGGGCGTCTCTGTTGGCTGGTTACGATGACTTTAATTGTAATGTATGGGACACGCTA
AAAGGAGATCGTGCAGGTGTCTTGCTGGTCATGACAACCGTGTGAGCTGCTTAGGTGTA
ACTGATGATGGCATGGCTGTGGCAACAGGCTCTGGGACAGTTTTCTTAGAATCTGGAAT
TAA
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Clone variation with respect to NM_021629.3
117 t=>c



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5' Read Nucleotide Sequence:	<pre>>OriGene 5' read for NM_021629 unedited TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCACGCCGGCTCCGCGCT CCGGGGTGTGAGCGCCAGCGGACACCGGCAGCGCGCGGTTCGACGCGGGCCTGAGCTC CCTCCAGCTGTTTTCACTCATTAGCTCCTGAGGTAAACAAATTGAAAAATGAGCGAACT GGAACAGTTGAGGCAAGAAGCAGAACAACCTGCGGAATCAGATTCAGGATGCTCGGAAAGC ATGTAATGATGCAACGCTTGTTTCAGATTACATCAAAATATGGACTCCGTGGGTGCAATACA AATGCGAACAAGACGTACACTGAGGGGCCACTAGCTAAAAATCTATGCTATGCATTGGGG ATACGATTCCAGGCTGCTAGTCAGTGCTTCTCAAGATGGAAAATTAATTATTTGGGATAG CTATAACAATAAAGATGCATGCTATTCTTTGAGGTCTCCTGGGTGATGACCTGTGC TTATGCTCCCTCTGGTAATTATGTTGCCTGTGGAGGCTTGGACAACATCTGCTCTATATA TAACCTAAAGACCAGAGAGGGAAATGTGAGAGTAAGCCGAGAGTTGCCAGGTCACACAGG GTACTTGTCTGTGCTGTTTTTTAGATGACAGCCAAATGTTACAAGTTCAGGAGATAC AACTTGTGCTTTATGGGACATCGAAACTGCCAGCAGACCACCACATTCACTGGGCATTC TGGAGATGTGATGAGTCTTTCTTTGAGTCTGACATGAAGACTTTGTTTCTGGTCTTGT GATGCCCTCTTCAATATGGGATATTCGAGATGGATGTGTAGACAGTCTTTCACGNACA TGCTCTAGAATCATGCTGTAGTTTTTTTCCAATGGATATGCTTCGCACTGGTCTGAGATG CACTTGGCCTCTTTGACTTGTGCAGATCAGAGTATATTGAT</pre>
3' Read Nucleotide Sequence:	<pre>>OriGene 3' read for NM_021629 unedited GCCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCCATTTGAGATGGAGTC TCACTCTGTGCGCTAGGCTGGAGTGCAGTGGCACAATCTCGGCTCACTGCAACCTCTGCC TCCCGGGTTCAGGCGAATCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGAATGT GCCACCACGCCCGCTAATGTTTGTATTTTAGAAGAGATGGGGTTTACCATGTTGGGT AGGCTGGTCGCGAACTCCTGACCTCAAGTGATCTGCCACCTTGGCCTCCCAAATTGCTG GGATTATAGGTGTAAGCCACTCTGCCAGCCAAAAGTTAATAGAAATCTTAATCAAAT ATAAATATACATTCATAACTGCCATCTACAATATTCTGTTTTGGTCTATATCTTAATTT GCCTTTATCCACTTTATATTCTAATTGTCAACTGATTTTAATAAAACTGATACATCTTT ACAGTTGATGCACATATTAGCACATTCACAACATAAAAACAAAAATTTAGAGGTAAGTT TGGGAGTATTTAGGTTAAGTTACACATGTTCAAAGTTAACACAGACCTATCTGAAAAGT AACTAAGTTACAAAACAATGCACGTCTATATATCAGAATAATCCANGACTTTACCATCAA GNCAGACTAACAATCTTCTATTATCAGTCATTTAGACTTATTTCTAAAGAGAATCCACAG GAAAGTATCTTTAACTTGGTCGTGGGGACTTCTANTAAGAGAACATATTATACCACAGA AAACTGTTTATATAGCTCTCCTACNCTTTAAGACTGCTTTANGATTTTTTATTTGCTTT TAGGGGATCACTTAATCTAGAACTCTTTGAGCAAACACTTAAAACAATTTTTGTGCTAAG GAGGAAGAATACTCCAAAGTGCCAAAGAACAAGCTTAAGTTAAANTTAAGGCCCGATT CCTCATTCATTTTAGTGCCACTTAAAACCCCGGT</pre>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_021629
Insert Size:	3220 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_021629.2](#), [NP_067642.1](#)

RefSeq Size: 3302 bp

RefSeq ORF: 1023 bp

Locus ID: 59345

UniProt ID: [Q9HAV0](#)

Cytogenetics: 3q26.33

Domains: WD40

Protein Families: Druggable Genome

Protein Pathways: Chemokine signaling pathway

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. [provided by RefSeq, Jul 2008]