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Product datasheet for SC102153

GNB5 (AK093027) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNB5 (AK093027) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNB5
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for AK093027, the custom clone sequence may differ by one or more nucleotides

AATGTATGAATTATTTACTAATCCAAAAAGTAAGTGAGGAGTCAGCTTTCTTCCTGACGGTTTTCCTTTC
ACTTTTCCTCTTATTTTCTTTTTCTTTCTTTGTGACAGCGTCTCTCACTCTTATCTCCCAGGCTGGAGTG
CAGTGGCACGATCATAGCTCACTGCAGCCTGGCCCTCTTGGGCTCAAGCGATTTCCCCACCTTAGCCTCT
CAAGTTGCTGGGACCACAGTCCTGTGCCACCAGGCCTGGCTAATTTTTTATTTTTCATTTGTAGAGACAG
GGTTTCCCTATGTTGCCCAGGCTGGCTTTGAACGCCTAAGCTCAAGCAGTCCTCCCCCTGAGTGGTAGGA
TGACAGGTGTGAACCGCCACTCAAGGCCCCCACTTTTCCTTTTTTTTTTTTTTGTTCGGTTTTTTTTTAC
ATTTGGTTCCTCAGAGAATATAAATACTGTTTACATACGTAATATAGAACAAAGAAAATTTGTACTTAAA
AAAGCAACGCTATGGTAATAGTGTATGTGTACCAATTAGTGCCAGATTCATTTGTTTTTTCATGGAATAG
AAAGTGTTCTTACATTTTTATCAGTGCTGCTAATGTGGGGTGGGTGGGATTTAGTTTCTCAGAAGAAAAG
ACCGATAAGAAAAGGGAGATAAAACCAGTATAATCTCTTGTGTGCTTTTCACCTTCGAGGTACATTTCTG
GCCCGACAAAAACTACTGCTCTTCTGGTTTCTAACAATATGGAGGTCCTTAGAATTGACTTAAAGTGTTT
GAATTTATTCAAATACAGATTCTGTATTTAGTGGAATTTTGTACCACAACAAGTAAGATTATAGTATTGG
AGGGAAGAAAGTCTGGTATAAAAGTGTACTTTACTGTCCATACATGAGGAAGTGACATAATTTATGTTTT
CAAAATCTGGAGTAATTCTTTGTGAAAAAGATTTTGTAAGGGTATGGGAAGTTGCTGTTTGCTGCTTCCC
TGTGTTCTCACAGCAATCTGCTAATAAGTGTAACTCAGCTATTAGAAGTAGTAAGGACAGCGTTGTAGAC
TGATTAGGGGAAAAGCCAGTGTGAGTTAAAAAAATTACTTTTTAACATTTTTTAAAAAGAACTTATTTTT
AAGCAAAGTTTATATGGTAAACTAAACTAAGCTAGTTAACATGAGTCCCTAGGCATTCTGTTCTAATGTA
TAGGTAAGAATGACTTTAGTTTGTAATTAGTGTGGTCAAAAGAATGTAAAGAAATGTTTTAAAATACTCT
GATACTGCTTAAATTTTTATTTTCCTAGGTAGTTTAGTATTCTCTCATTACCTGTTTTGGTTTAAAAAAA
ATCTTTCGGTAATGCAAAGATAAACTTTTGGCTATGCGTTATCTGAGTTACGTATTCTGAATCATTTGAA
TTCAAATGTAGTAGGTATTAACTATTAAATATGCTCCATATATGTGAAGTATTTTTCCCTTCTAAGTGCT
TATAGTGACTGTGTGTTGGCTGTCTTTTATGAGAGCCTTCCTAGCAGTTTAGATTACTGCTGATTATTTC
TTTGGAATGAATATTCTTTAAAGCTCATAAGATAATGCTTTTACCAATACAAACACTTTGTGTGACCTGC
CAGATTTAAGGACCATAGTACAGCTATGGATACTGAACCAAACCCGGGAACATCTTCTGTGTCAACAACA
ACCAGCAGCACCACCACCACCACCATCACCACTTCCTCCTCTCGAATGCAGCAGCCACAGATCTCTGTCT
ACAGTGGTTCAGACCGACATGCTGTACAGGTATTTCAGCTGTAGTGATGGGTAGTCTAAGACTTAAGATG
TCATATTACTTTTTGCTTAAGCTGGATTTATGTATTGTTTCATATTCTCAAATGTACAGTTAGAATTACT
AATGTTTCAATCAACTGTCTCAATCCATTTTGTGTGGCTATAGCAGAATACCAAGACTGTGTAATTGTAA
AGAAAAGAAACTTATTTCTTACATTTCTGGAAGCTGGGAAGTCTAATATGAAGGAGCTGGCATCTCACGA
GGGCCGTCTTATTGCCTCATTCCGTGGTGGAAGACTAGAGAGCAAGATACCAAATTTGCAGCCTCAAGCC
CTTTTAAAATTTCCTTTAGTCGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCG
AGGCGGGCGGATCACGAGGTCAGGAGATCGAGACCACGGTGAAACCCCGTCTCTACTAAAAATACAAAAA
ATTAGCCGGGCGCAGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTG
AACCCGGAAGGCGGAGCTTGCAGTGAGCGGAGATCGCGCCACAGCACTCCCGCCTGAGCGACAGAACTAG
ACTCCGTCTC

5' Read Nucleotide Sequence:

>OriGene 5' read for AK093027 unedited
AATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGTGATTGGAAGGCAGTTTGG
AAAAAAAAAAAAAAAACAGAAGCATAAAAATGTATGAATTATTTACTAATCCAAAAAGTA
AGTGAGGAGTCAGCTTTCTTCCTGACGGTTTTCCTTTCACTTTTCCTCTTATTTTCTTTT
TCTTTCTTTGTGACAGCGTCTCTCACTCTTATCTCCCAGGCTGGAGTGCAGTGGCACGAT
CATAGCTCACTGCAGCCTGGCCCTCTTGGGCTCAAGCGATTTCCCCACCTTAGCCTCTCA
AGTTGCTGGGACCACAGTCCTGTGCCACCAGGCCTGGCTAATTTTTTATTTTTCATTTGT
AGAGACAGGGTTTCCCTATGTTGCCCAGGCTGGCTTTGAACGCCTAAGCTCAAGCAGTCC
TCCCCCTGAGTGGTAGGATGACAGGTGTGAACCGCCACTCAAGGCCCCCACTTTTCCTTT
TTTTTTTTTTTGTTCGGTTTTTTTTTACATTTGGTTCCTCAGAGAATATAAATACTGTTT
ACATACGTAATATAGAACAAAGAAAATTTGTACTTAAAAAAGCACCGCTATGGTAATAGT
GTATGTGTACCAATTAGTGCCAGATTCATTTGTTTTTTCATGAAATAGAAAGTGTTCTTA
CATTTTTATCAGNGCTGCTAATGTGGGGTGGGTTGGGATTTTAGTTCTCAAAAGAAAAGA
CCGATAAGAAAAAGGGAGATAAAACAGTATAATCCCTTGGGCGCTTTTCACCTCGGAGTA
CATTTCCTGCCCGACAAAACTACTGCTTTTCTGGGTTCTACAATATGGAAGGCCTAAAAA
TGACTTAAGGGTTTGGATTNATCCAATCCCGATTCTGGATTAATGGAATTTTGGACCCAA
CAGTAAATTATTTTTTTGGAGGGAAAAAACTTGGTTAC

3' Read Nucleotide Sequence:

>OriGene 3' read for AK093027 unedited
TTCACCTATGNACCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTGAGACG
GAGTCTCGTTCTGTCGCTCAGGCGGGAGTGCTGTGGCGCGATCTCCGCTCACTGCAAGCT
CCGCCTTGCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGG
CGCCCGCCACTGCGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTG
GTCTCGATCTCCTGACCTCGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACA
GGCGTGAGCCACCGCGCCCGGCCGACTAAAGGAAATTTTAAAAGGGCTTGAGGCTGCAAA
TTTGGTATCTTGCTCTCTAGTCTTCCACCACGGAATGAGGCAATAAGACGGCCCTCGTGA
GATGCCAGCTCCTTCATATTAGACTTCCCAGCTTCCAGAAATGTAAGAAATAAGTTTCTT
TTCTTTACAATTACACAGTCTTGGTATTCTGCTATAGCCACACAAAATGGATTGAGACAG
TTGATTGAAACATTAGTAATTCTAACTGTACATTTGAGAATATGAAACAATACATAAATC
CAGCTTAAGCAAAAAGTAATATGACATCTTAAGTCTTAGACTACCCATCACTACAGCTGA
AATACCTGTACAGCATGTCGGTCTGAACCACTGTAGACAGAGATCTGTGGCTGCTGCATT
CCANAGGAGGAAATGGTGATGGTGGTGGTGGTGGTACTGCTGGTTGTTGTTGACACAGCA
GATGTTCCCGGGTTTGGTTCAATATCCCTAGCTGTACTATGGTCCTTAAATCTGGCCGGC
CCACAAAGTGTTTGGATTGGTAAAAGCTTATCTTATGAGCCTTAAAGAATATTCCTTCCC
AAGAAATAATCACCAGTAATTTAAACTGGTTGAAGGCTT

Restriction Sites: NotI-NotI

ACCN: AK093027

Insert Size: 2700 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:	AK093027.1
RefSeq Size:	2390 bp
RefSeq ORF:	2390 bp
Locus ID:	10681
Cytogenetics:	15q21.2
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. Alternatively spliced transcript variants encoding different isoforms exist. [provided by RefSeq, Jul 2008]