

Product datasheet for **SC118218**

beta Synuclein (SNCB) (NM_003085) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | beta Synuclein (SNCB) (NM_003085) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | beta Synuclein |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC118218 sequence for NM_003085 edited (data generated by NextGen Sequencing) ATGGACGTGTTTCATGAAGGGCCTGTCCATGGCCAAGGAGGGCGTTGTGGCAGCCGCGGAG AAAACCAAGCAGGGGTCACCGAGGCGCGGAGAAGACCAAGGAGGGCGTCCTCTACGTC GGAAGCAAGACCCGAGAAGGTGTGGTACAAGGTGTGGCTTCAGTGGCTGAAAAACCAAG GAACAGGCCTCACATCTGGGAGGAGCTGTGTTCTCTGGGGCAGGGAACATCGCAGCAGCC ACAGGACTGGTGAAGAGGGAGGAATTCCTACTGATCTGAAGCCAGAGGAAGTGGCCAG GAAGCTGCTGAAGAACCACTGATTGAGCCCTGATGGAGCCAGAAGGGGAGAGTTATGAG GACCCACCCAGGAGGAATATCAGGAGTATGAGCCAGAGGCGTAG Clone variation with respect to NM_003085.3 |



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003085 unedited
 TATTTTGTAAACGACTCACTTATAGGGCGGCCCGATTCCGGCACGAGGTGCCCGCCGCA
 GCCCGCGCTCCATCCCCAGCCCCGGCCCCGCATCCAGGCCGCCAGGATGGACGTGTTTCAT
 GAAGGGCTGTCCATGGCCAAGGAGGGCGTTGTGGCAGCCGCGGAGAAAACCAAGCAGGG
 GGTCACCGAGGCGCGGAGAAGACCAAGGAGGGCGTCTCTACGTGCGAAGCAAGACCCG
 AGAAGGTGTGGTACAAGGTGTGGCTTCACTGGCTGAAAAACCAAGGAACAGGCCTCACA
 TCTGGGAGGAGCTGTGTTCTCTGGGGCAGGGAACATCGCAGCAGCCACAGGACTGGTGAA
 GAGGGAGGAATCCCTACTGATCTGAAGCCAGAGGAAGTGGCCAGGAAGCTGCTGAAGA
 ACCACTGATTGAGCCCTGATGGAGCCAGAAGGGGAGAGTTATGAGGACCCACCCAGGA
 GGAATATCAGGAGTATGAGCCAGAGGCGTAGGGGCCAGGAGAGCCCCACCAGCAGCAC
 AATTCTGTCCCTGTCCTGCCCGCCCCCAGAGCCAGGGCTGTCCTTAGACTCCTTCTC
 CCCAATCACGAGATCTTCTTCCGCTCTGAGGCAACCCCTCGGAGCCTGTGTTAGTGTC
 TGTCATCTGTCTGCTACCCGCCCGCTCAACCCCGNGCATGGACAGGGCCAGGGT
 TCGGGTCGCGGCTGGGAGCCTCGCCCTCCAGTNTGCCTCCTCCATCCAGCGTCTGCG
 CGGATGTAGCATGTTCTATGTGTTTTAAACGAAGATCCGAGCGACGGCTTCTCCCGA
 TCCCCGACAGTGTCTCCAAGCGCCCCCGGCGAGCCACAGAGCACCCCGCCCCGACTCC
 ATTAACCTCGCATAACCTTNTTTTTTTTACAAAACCAGGAAGCCAGCCTGTGCCATGT
 CCCCCGCCCATCCCAGCCGTCCCGTGCCGACCCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003085 unedited
 CTATGTACCGGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTACAAACAGAA
 TTAGCTTTATTCATGGACTCTCGGGGGCGGCCGGGCCACCCGCCCGGGACACGCTCAC
 ATGGGGGGGATGGGACTCTCCATGCCACAATCACAACACACGACGCCCGCGTTCGGAC
 GGGCCGGCTGGGATGGGGGGCGGGGACATGGCAGCCTGGTCTCTGGTTTTGGTTAAA
 AAAAAAAGTTCTCGAGGTTAATGGGAGTCGGGCGGGGTGCTCTGGGGCTGCCCGGGG
 CCGCTTGAGAGCCACTGTGCGGGATCGGGGAGGAGCCGTGCTCGGATCTTCGTTTAA
 AAACCACATAGAACATGTACATCCGCGCAAACCTGGATGGGAGGAGGCAACTGGAG
 GGGCGAGGCTTCCACCCGCGACCCGAAACCTGGCCCTGTCCATGGCCCCGGGTTGGAC
 GCCGGCGGATAGGACAGACAGATGGGACAGACCCTAACCCAGCCTCCGAGGGGGTTGCC
 CAAAGCGAAGAAAACTCTGGAATGGGAAACAGGACCCTAAGGCCAACCTGGCTTCT
 GGGGGCGGGGCGAGGCCAGGGACCAATCGGCCCGCTGGAGGGGGCCCCACTGGGCC
 CCCACCCCTGGACAATACCAAACGACAATCCCCGGGGCGGGCTCCCCCTACTTCATAA
 CTAAACGACAATCCAACAGCGCCCATTAACCTGAATTCTACACAACAACCCCGACACT
 AAACACATTGCGCATTCTTCGCTCTACCTCCCCACCTTCTTACATTTCTAACCCCTCT
 TA

Restriction Sites:

NotI-NotI

ACCN:

NM_003085

Insert Size:

1210 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_003085.3](#), [NP_003076.1](#)

RefSeq Size: 1310 bp

RefSeq ORF: 405 bp

Locus ID: 6620

UniProt ID: [Q16143](#)

Cytogenetics: 5q35.2

Domains: Synuclein

Gene Summary: This gene encodes a member of a small family of proteins that inhibit phospholipase D2 and may function in neuronal plasticity. The encoded protein is abundant in lesions of patients with Alzheimer disease. A mutation in this gene was found in individuals with dementia with Lewy bodies. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (2) lacks an exon in the 5' UTR compared to variant 1. Variants 1, 2 and 7 encode the same protein (isoform 1).