

## Product datasheet for **SC119919**

### alpha Synuclein (SNCA) (NM\_000345) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	alpha Synuclein (SNCA) (NM_000345) Human Untagged Clone
Tag:	Tag Free
Symbol:	alpha Synuclein
Synonyms:	NACP; PARK1; PARK4; PD1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119919 sequence for NM_000345 edited (data generated by NextGen Sequencing)

```
ATGGATGTATTCATGAAAGGACTTTCAAAGCCAAGGAGGGAGTTGTGGCTGCTGCTGAG
AAAACCAAACAGGGTGTGGCAGAAGCAGCAGGAAAGACAAAAGAGGGTGTCTCTATGTA
GGCTCCAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAACAGTGGCTGAGAAGACCAAA
GAGCAAGTGACAAATGTTGGAGGAGCAGTGGTACGGGTGTGACAGCAGTAGCCAGAAAG
ACAGTGGAGGGAGCAGGGAGCATTGCAGCAGCCACTGGCTTTGTCAAAAAGGACCAGTTG
GGCAAGAATGAAGAAGGAGCCCCACAGGAAGGAATTCTGGAAGATATGCCTGTGGATCCT
GACAATGAGGCTTATGAAATGCCTTCTGAGGAAGGGTATCAAGACTACGAACCTGAAGCC
TAA
```

Clone variation with respect to NM\_000345.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000345 unedited  
 GGTCTGAATTTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGAAGGGGCCCA  
 AGAGAGGGGGCGAGCGACCGAGCGCCGACGCGGAAGTGAGGTGCGTGCGGGCTGCAGC  
 GCAGACCCCGGCCCGGCCCTCCGAGAGCGTCTGGGCGCTCCCTCACGCCTTGCCTTCA  
 AGCCTTCTGCCTTTCCACCCTCGTGAGCGGAGAAGTGGGAGTGGCCATTCGACGACAGTG  
 TGGTGTAAAGGAATTCATTAGCCATGGATGTATTCATGAAAGGACTTTCAAAGGCCAAGG  
 AGGGAGTTGTGGCTGCTGCTGAGAAAACCAACAGGGTGTGGCAGAAGCAGCAGGAAAGA  
 CAAAAGAGGGTGTCTCTATGTAGGCTCCAAAACCAAGGAGGGAGTGGTGCATGGTGTGG  
 CAACAGTGGCTGAGAAGACCAAAGACAAAGTACAAATGTTGGAGGAGCAGTGGTGACGG  
 GTGTGACAGCAGTAGCCAGAAGACAGTGGAGGGAGCAGGGAGCATTGCAGCAGCCACTG  
 GCTTTGTCAAAAAGGACCAGTTGGGCAAGAATGAAGAAGGAGCCCCACAGGAAGGAATTC  
 TGAAGATATGCCTGTGGATCCTGACAATGAGGCTTATGAAATGCCTTCTGAGGAAGGGT  
 ATCAAGACTACGAACCTGAAGCCTAAGAAATATCTTTGCTCCAGTTTCTTGAGATCTGC  
 TGACAGATGTTCCATCCTGTACAAGTGTCTAGTCCAATGTGCCAGTCATGACATTTCT  
 CANAGTTTTTACAGTGTATCTCGAAAGTCTTCATCAGCAGTGATTGAAGTATCTGCACCT  
 GCCNCACCTCAGCATTNCGTGCTTCCCTTCTACTGNAGTGAATACATGGTAGCAGGTCC  
 TTGTGTGCTGTGGATTNTGTGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000345 unedited  
 GATGGAACCTCCATTGCCAGNANAGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGAT  
 CTGTTCCAGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGNNTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTGGCAATGAAATAACGTTTTATTTAATTC  
 TCACCATTTATATACAAACCAAGTGAATTATTCACATCGAAAAGGGGAAAATTTTCATA  
 TTTAGTATTTATAGGGGCATAGTTTCATGCTCACATATTTTAAAGTTTTATATATTTTAA  
 CAAATTTACAAATACGTATTTTTCTTAAACAGTTTCATTAAGACACCTAAAAATCTT  
 ATAATATATGATAGCAAATCACTAACAACCTTTTGAACAACAGCAACAAAAAATAGGGGG  
 GATTTAAAAATAAGGGGGAGCCACTTAGGGGTTTTTAATTTGTTTTAACATCGTAGATTG  
 AAGCCACAAAAATCCACAGCACACAAAGACCCTGTACCATGTATTCACCTCAGGGAAAGG  
 GAACCACCGAAATGCTGAGTGGGGCAGGTACAATACTTCAATCACTGGTGATGGAAGA  
 CTTGAGATACACTGTAAAACTTTGAGAAATGTACTGACTGGGCACATTGGAAGTGAAGC  
 ACTTGTACAGTATGGAACATCTGTCAACAGATCTCAAAAACTGGGAGCAAGATATTTTC  
 TTAGGCTTCAGGTTCCGGAGTCTTGATACCCTTCCCAAAAGGCATTTTCATAAGCCTTATT  
 GTCAGGATACACAAGCATTTTTTTCCAAAATTCCTTCTGTGGGGCTCCTTCTTAATAC  
 TTTGACAAACTGTTCTTTTTTGACAAAGCCAGGGGCTGTTGGAATGCTTCTGCTCCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000345

**Insert Size:**

423 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).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_000345.2</a> , <a href="#">NP_000336.1</a>
<b>RefSeq Size:</b>	1543 bp
<b>RefSeq ORF:</b>	423 bp
<b>Locus ID:</b>	6622
<b>UniProt ID:</b>	<a href="#">P37840</a>
<b>Cytogenetics:</b>	4q22.1
<b>Domains:</b>	Synuclein
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Parkinson's disease
<b>Gene Summary:</b>	<p>Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit phospholipase D2 selectively. SNCA may serve to integrate presynaptic signaling and membrane trafficking. Defects in SNCA have been implicated in the pathogenesis of Parkinson disease. SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer's disease. Alternatively spliced transcripts encoding different isoforms have been identified for this gene. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (1, also known as NACP140) is the longest transcript and encodes the longer isoform (NACP140). Variants 1, 2, and 3 all encode the same isoform.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>