

Product datasheet for **SC310047**

Synphilin 1 (SNCAIP) (NM_005460) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synphilin 1 (SNCAIP) (NM_005460) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synphilin 1
Synonyms:	Sph1; SYPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310047 representing NM_005460.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAAGCCCTGAATACCTTGATTGGATGAAATTGACTTTAGTGATGACATATCTTATTCAGTCACA
TCACTCAAGACGATCCAGAACTGTGCCGAAGATGTGATACGCAAAACGAAGACAGATCAGTTTCTAGC
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CAAAACAATAATAAATACTACCAGGCAGCAACCAGCTGAAAACCTCTACATTGCCCTTGACCTCACTT
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ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI
 ACCN: NM_005460

Insert Size:	2760 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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).
Reconstitution Method:	<ol style="list-style-type: none"> 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_005460.2
RefSeq Size:	3569 bp
RefSeq ORF:	2760 bp
Locus ID:	9627
UniProt ID:	Q9Y6H5
Cytogenetics:	5q23.2
Domains:	ANK
Protein Pathways:	Parkinson's disease
MW:	100.4 kDa

Gene Summary:

This gene encodes a protein containing several protein-protein interaction domains, including ankyrin-like repeats, a coiled-coil domain, and an ATP/GTP-binding motif. The encoded protein interacts with alpha-synuclein in neuronal tissue and may play a role in the formation of cytoplasmic inclusions and neurodegeneration. A mutation in this gene has been associated with Parkinson's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Transcript Variant: This variant (1, also known as variant a) differs in the 5' UTR, lacks an alternate in-frame exon in the 5' coding region, and lacks an exon that results in a frameshift in the 3' coding region, compared to variant 2. The encoded isoform (1) has a distinct C-terminus and is shorter than isoform 2.