

Product datasheet for **RC234537**

Synphilin 1 (SNCAIP) (NM_001242935) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synphilin 1 (SNCAIP) (NM_001242935) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Synphilin 1
Synonyms:	Sph1; SYPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC234537 representing NM_001242935
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACATATCTTATTTCAGTCACATCACTCAAGACGATCCCAGAAGTGTGCCGAAGATGTGATACGCAAAA
 CGAAGACAGATCAGAATGGTCAGTTGGAGTGCCTACGCTGGATGGTGAGCGAAACAGAAGCCATTGCAGA
 ACTGAGTTGTTCTAAGGATTTTCCAAGCCTTATTCATTACGCAGGTTGCTATGGCCAGGAAAAGATTCTT
 CTGTGGCTTCTTCAGTTTATGCAAGAACAGGGCATCTCGTTGGATGAAGTAGACCAGGATGGCAACAGTG
 CCGTTCACGTAGCCTCACAGCATGGCTACCTTGGATGCATACAGACCTTGGTTGAATATGGAGCAAAATGT
 CACCATGCAGAACCAGCTGGGAAAAGCCCTCCAGAGCGCCGAGCGGCAGGGGCACACCCTGTGCTCC
 AGGTACCTGGTGGTGGAGACCTGCATGTGCTGGCCTCTCAAGTGGTGAAGTAAACCAAGCAGCTAA
 AGGAACAAACAGTAGAACGTGTCAGCTGCAGAACCAACTCCAACAATTTCTAGAAGCCCAGAAAATCAGA
 GGGCAAGTCACTCCCTTCTCACCCAGTTCACCATCCTCACTGCCTCCAGAAAGTCCCAGTGGAAATCT
 CCAGATGCAGATGATGATTCTGTAGCCAAAAGCAAGCCAGGAGTCCAAGAGGGGATTTCAGGTTCTTGAA
 GCCTGTACGCCTCCAGCCGGGCTAGACCCAAAAGCAAAAGATGAAGATTCTGATAAAATCTTACGCCAGTT
 ATGGGAAAGGAAATCTCAGAAAATGTCTGCACCCAGGAAAAACTGTCTTGGAAATTCAGGATGCTCAG
 GCTTCCTCTAGAAATCTAAAAAGATCCCACTGGAGAAGAGGGAAGTGAAGTTAGCCAGGCTGAGACAGC
 TGATGCAGAGGCTCACTGAGTGAAGTCTGACACAGACTCCAACAACCTCTGAGGACCCCAAGACTACCCAGT
 GAGGAAGGCTGACCGACCAAGGCCGAGCCCATTTAGAAAAGCGTAGAGAGTATGGACAGCGCAGAAAAGC
 CTGCACCTGATGATTAAGAAACACACCTTGGCATCAGGGGGACGCAGGTTTCTTTCAGCATCAAGGCTC
 CCAAATCCCTGGATGGCCACAGCCCATCTCCACCTCAGAGAGCAGCGAACCCAGACTAGAATCCAGATA
 TCCAGGCTCAGGGAGATTCTCTCAAACCAAGCCCTCTGGTGACCCCTCAGCAGCCAGCCCTGACAGTACT
 GCTGCCAGAAAAGTTGCCACAAGTCCCAAGAGTGCCTCAAGTCTCCATCTTCCAAGCGTAGGACATCTC
 AGAACTTAAAAGTGAAGTTACCTTTGAGGAGCCTGTGGTGCAGATGGAGCAGCCTAGCCTTGAAGTGA
 TGGAGAAAAGACAAAGATAAGGGCAGGACTCTCCAGCGGACCTCCACAAGTAAACGAATCGGGGATCAA
 CTGAAAAGGCTTTTGGAGCCTTTCGATCTATCATGGAGACACTAAGTGGCAACCAAAACAATAATAATA
 ACTACCAGGCAGCAACCCAGCTGAAAACCTCTACATTGCCCTTGACCTCACTTGGGAGGAAGACAGATGC
 CAAGGGAACCCCTGCCAGCTCCGCTAGCAAAGGAAAGAATAAGGCAGAAATGTACAGCAGCTGCATCAAT
 CTTTCTCTAACATGCTGATTGAAGAGCATCTGTGTAACGACACACGGCATAATGACATCAATAGAAAAA
 TGAAGAAATCTACAGCATAAAGCACATTGCTGAGCCAGAGTCAAAGAAGTCTTCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234537 representing NM_001242935
 Red=Cloning site Green=Tags(s)

MTYLIQSHHSRRSQNCAEDVIRKTKTDQNGQLECVRWMVSETEAIAELSCSKDFPSLIHYAGCYGQEKIL
 LWLLQFMQEQGISLDEVDQDGN SAVHVASQHGVLGCIQTLVEYGANVTM QNHAGEKPSQSAERQGH TLCS
 RYL VVVETCMSLASQVVKLTKQLKEQTVERTLQNQLQQFLEAQKSEGKSLPSSPSSPASRSQWKS
 PDADDDSVAKSKPGVQEGIQVLGSL SASSRARP KAKDESDKILRQLLGKEISENVCTQEKLSLEFQDAQ
 ASSRNSKKI PLEKRELKLARLRQLMQRSLSESDTDSNNEPDKTTPVRKADRPRQPPIVESVESMDSAES
 LHLMIKKHTLASGRRFPFSIKASKSLDGHSPTSSESSEPDLESQYPGSGSIPPNQPSGDPQQPSPDST
 AAQKVATSPKSALKSPSSKRRTSQNLKLRVTFEFPVQMEQPSLELNGEKDKDKGRTLQRTSTSNESGDQ
 LKRPF GAFRSIMETLSGNQNNNNYQAANLKTSTLPL TSLGRKTD AKGNP ASSASKGNKAEMYSSCIN
 LSSNMLIEEHL CNDTRHNDINRKMKSYSIKHIAEPESKELFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001242935

ORF Size: 1809 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001242935.2](#)

RefSeq Size: 2588 bp

RefSeq ORF: 1812 bp

Locus ID: 9627

UniProt ID: [Q9Y6H5](#)

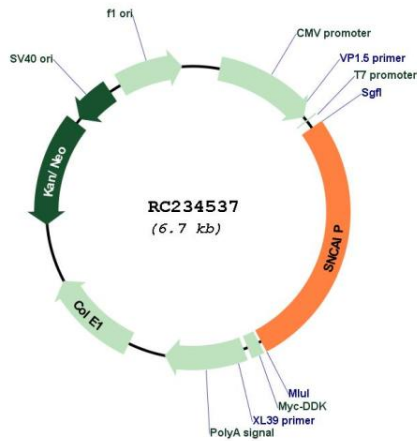
Cytogenetics: 5q23.2

Protein Pathways: Parkinson's disease

MW: 67.1 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]

Product images:



Circular map for RC234537