

Product datasheet for **RG234537**

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:	TurboGFP
Symbol:	Synphilin 1
Synonyms:	Sph1; SYPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234537 representing NM_001242935
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACATATCTTATTTCAGTCACATCACTCAAGACGATCCCAGAAGTGTGCCGAAGATGTGATACGCAAAA
 CGAAGACAGATCAGAATGGTCAGTTGGAGTGCCTACGCTGGATGGTGAGCGAAACAGAAGCCATTGCAGA
 ACTGAGTTGTTCTAAGGATTTTCCAAGCCTTATTCATTACGCAGGTTGCTATGGCCAGGAAAAGATTCTT
 CTGTGGCTTCTTCAAGTTTATGCAAGAACAGGGCATCTCGTTGGATGAAGTAGACCAGGATGGCAACAGTG
 CCGTTCACGTAGCCTCACAGCATGGCTACCTTGGATGCATACAGACCTTGGTTGAATATGGAGCAAAATGT
 CACCATGCAGAACCAGCTGGGAAAAGCCCTCCAGAGCGCCGAGCGGCAGGGGCACACCCTGTGCTCC
 AGGTACCTGGTGGTGGAGACCTGCATGTGCTGGCCTCTCAAGTGGTGAAGTAAACCAAGCAGCTAA
 AGGAACAAACAGTAGAACGTGTCAGCTGCAGAACCAACTCCAACAATTTCTAGAAGCCCAGAAAATCAGA
 GGGCAAGTCACTCCCTTCTTCAACCCAGTTCACCATCCTCACTGCCTCCAGAAAGTCCCAGTGGAAATCT
 CCAGATGCAGATGATGATTCTGTAGCCAAAAGCAAGCCAGGAGTCCAAGAGGGGATTTCAGGTTCTTGAA
 GCCTGTACGCCTCCAGCCGGGCTAGACCCAAAAGCAAAAGATGAAGATTCTGATAAAAATCTTACGCCAGTT
 ATTTGGAAAGGAAATCTCAGAAAATGTCTGCACCCAGGAAAAACTGTCTTGGAAATTCAGGATGCTCAG
 GCTTCTCTAGAAATTTAAAAAGATCCCAGTGGAGAAGAGGGAAGTGAAGTTAGCCAGGCTGAGACAGC
 TGATGCAGAGGTCAGTGTGAGTCTGACACAGACTCCAACAACCTCTGAGGACCCCAAGACTACCCAGT
 GAGGAAGGCTGACCGACCAAGGCCGAGCCCATTTAGAAAAGCGTAGAGAGTATGGACAGCGCAGAAAAGC
 CTGCACCTGATGATTAAGAAAACACACCTTGGCATCAGGGGACGCAAGTTCCTTTCAGCATCAAGGCC
 CCAAATCCCTGGATGGCCACAGCCCATCTCCACCTCAGAGAGCAGCGAACCCAGACTAGAATCCAGATA
 TCCAGGCTCAGGGAGATTCTCTCAAACACGCCCTCTGGTGACCTCAGCAGCCAGCCCTGACAGTACT
 GCTGCCAGAAAAGTTGCCACAAGTCCCAAGAGTGCCTCAAGTCTCCATCTTCCAAGCGTAGGACATCTC
 AGAACTTAAAAGTGAAGTTACCTTTGAGGAGCCTGTGGTGCAGATGGAGCAGCCTAGCCTTGAAGTGA
 TGGAGAAAAGACAAAGATAAGGGCAGGACTCTCCAGCGGACCTCCACAAGTAACGAATCGGGGATCAA
 CTGAAAAGGCCTTTTGGAGCCTTTCGATCTATCATGGAGACACTAAGTGGCAACCAAAACAATAATAATA
 ACTACCAGGCAGCAACCCAGCTGAAAACCTCTACATTGCCCTTGACCTCACTTGGGAGGAAGACAGATGC
 CAAGGAAAACCTGCCAGCTCCGCTAGCAAAGGAAAGAATAAGGCAGAAATGTACAGCAGCTGCATCAAT
 CTTTCTCTAACATGCTGATTGAAGAGCATCTGTGTAACGACACACGGCATAATGACATCAATAGAAAAA
 TGAAGAAATCTACAGCATAAAGCACATTGCTGAGCCAGAGTCAAAGAAGTCTTCTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234537 representing NM_001242935
 Red=Cloning site Green=Tags(s)

MTYLIQSHHSRRSQNCAEDVIRKTKTDQNGQLECVRWMVSETEAIAELSCSKDFPSLIHYAGCYGQEKIL
 LWLLQFMQEQQISLDEVDQDGN SAVHVASQHG YLGC IQTLVEYGANVTM QNHAGEKPSQSAERQGH TLC S
 RYL VVVETC MSLASQVVKLTKQLKEQTVERTLQNLQQFLEAQKSEKSLPSSPSSPSPASRKSQWKS
 PDADDDSVAKSKPGVQEGIQVLGSL SASSRARP KAKDESDKILRQLLGKEI SENVCTQEKLSLEFQDAQ
 ASSRNSKKIPEKRELKLARLQMLQRSLS ESDTDSNNE DPKTPVRKADRPRPQPIVESVESMDSAES
 LHLMIKKHTLASGRRFPFSIKASKSLDGHSPSPTSESSEPDLESQYPGSGSIPPNQPSGDPQQPSPDST
 AAQKVATSPK SALKSPSSKRRTSQNLKLRVTFE EPVVMQEQPSLELNGEKDKDKGR LQRTSTSNESGDQ
 LKRPF GAFRSIMETL SGNQNNNNYQAANQLK TSTLPLTSLGRKTD AKGNP ASSASKGNKAEMYSSCIN
 LSSNMLIEEHL CNDTRHNDINRKMKKSYSIKHIAEPESKELFL

TRTRPLE – GFP Tag – V

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

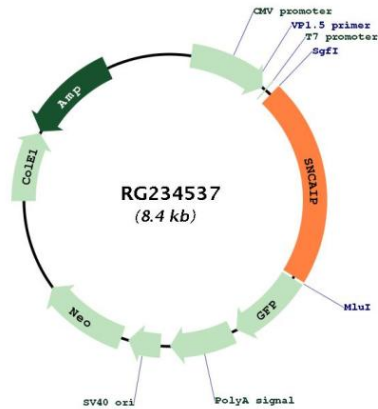
UniProt ID: [Q9Y6H5](#)

Cytogenetics: 5q23.2

Protein Pathways: Parkinson's disease

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 RG234537