

## Product datasheet for **RG222425**

### Synphilin 1 (SNCAIP) (NM\_005460) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Synphilin 1 (SNCAIP) (NM_005460) 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:**

>RG222425 representing NM\_005460  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGCCCCTGAATACCTTGATTTGGATGAAATTGACTTTAGTGATGACATATCTTATTCAGTCACAT  
 CACTCAAGACGATCCCAGAAGTGTGCCGAAGATGTGATACGCAAAACGAAGACAGATCAGTTTCTAGCTC  
 TAGCTGGAATTGTGGCATCTCAACTCTTATTACAAACACGCAAAAAGCCACAGGAATCGCTGATGTGAC  
 AGTAAGTTCGCCAGTGAAGCGGGTTTCGCCACTGAAACATCAGCCAGAGACTCTGGAGAACAATGAAA  
 GTGATGACCAAAAGAACCAGAAAGTGGTTGAGTACCAGAAAGGGGTGAGTCTGACCTGGGCCCCAGCC  
 TCAGGAGCTTGGCCCTGGAGATGGAGTGGGCGGCCACCAGGTAAGAGCTCTGAGCCAGCACATCGCTG  
 GGTGAAGTGGAGCACTACGACCTCGACATGGATGAGATTCTGGATGTGCCTTATATTAATCCAGTCAGC  
 AGCTTGCCTCTTTACCAAGGTGACTTCAGAAAAAGAATTTGGGCTTATGCACAACCATCAATGGCCT  
 TTCTGGCAAAGCCTGCTCTACAGGAAGTCTGAGAGCTCATCATCAACATGGCACCATTTGTGTTCTT  
 TCTCCCGTGAAAAGCCCTCACTTGAGAAAAGCATCAGCTGTCATCCACGACCAGCACAAAGCTGTCCACTG  
 AAGAAACCGAGATCTCACCTCCTCTGGTTAAATGTGGCTCTGCATATGAGCCTGAAAACAGAGTAAAGA  
 CTTCTAAACAAGACATTTAGTGATCCTCATGGTCGAAAAGTTGAGAAGACAACACCAGACTGCCAGCTC  
 AGGGCCTTCCACCTACAATCCTCAGCAGCAGAATCCAAACCAGAAGAGCAGGTCAGTGGCCTAAACCGGA  
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 AGAAGGACAGATCTCTCCTGCCACACCTAGCTGCAGACAATCTAGACAAAATTCACGACGAAAATGGA  
 AACAATCTATTACATATTGGCGCGTACAGGGACACGCAGAGTGTCTACAGCACCTCACTCTTTGATGG  
 GAGAAGACTGCCTCAATGAGCGCAACACTGAGAAGTTGACTCCAGCAGGCCTGGCCATTAAGAATGGTCA  
 GTTGGAGTGCCTACGCTGGATGGTGGAGCGAAACAGAAGCCATTGCAGAAGTGTGTTCTAAGGATTTT  
 CCAAGCCTTATTCATTACGCAGGTTGCTATGGCCAGGAAAAGATTCTTCTGTGGCTTCTTCAGTTTATGC  
 AAGAACAGGGCATCTCGTTGGATGAAGTAGACCAGGATGGCAACAGTGCCGTTACCGTAGCCTCACAGCA  
 TGGCTACCTTGGATGCATACAGACCTTGGTTGAATATGGAGCAAATGTCACCATGCAGAACCACGCTGGG  
 GAAAAGCCCTCCAGAGCGCCGAGCGGCAGGGCACACCCTGTGCTCCAGGTACCTGGTGGTGGTGGAGA  
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 CACGCTGCAGAACCAACTCCAACAATTTCTAGAAGCCAGAAATCAGAGGGCAAGTCACTCCCTTCTTCA  
 CCCAGTTCACCATCCTCACCTGCCTCCAGAAAGTCCCAGTGGAAATCTCCAGATGCAGATGATGATTCTG  
 TAGCCAAAAGCAAGCCAGGAGTCCAAGAGGGGATTTCAGGTTCTTGGAAAGCCTGTCAGCCTCCAGCCGGC  
 TAGACCCAAAAGCAAAAGATGAAGATTCTGATAAAATCTTACGCCAGTTATTGGGAAAAGAAATCTCAGAA  
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 CCCATCTCCACCTCAGAGAGCAGCGAACCAAGACTTAGAATCCCAGTATCCAGGCTCAGGGAGATTCTCT  
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 CTTTGGAGAGCCTGTGGTGCAGATGGAGCAGCCTAGCCTTGAAGTGAATGGAGAAAAAGACAAAGATAAG  
 GGCAGGACTCTCCAGCGGACCTCCACAAGTAACGAATCGGGGATCAACTGAAAAGGCCTTTTGGAGCCT  
 TTCGATCTATCATGGAGACACTAAGTGGCAACCAAAACAATAATAAATACTACCAGGCAGCAACCAGCT  
 GAAAACCTCTACATTGCCCTTACCTCACTTGGGAGGAAGACAGATGCCAAGGAAAACCTGCCAGCTCC  
 GCTAGCAAAGGAAAGAATAAGGCAGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222425 representing NM\_005460  
 Red=Cloning site Green=Tags(s)

MEAPEYLDLDEIDFSDDISYSVTSLSKTIPELCRRCDTQNEEDRSVSSSSWNCGISTLITNTQKPTGIADV  
 SKFRPVKRVSPKHKQPETLENNESDDQKNQKVVEYQKGGESDLGPQPQELGPGDGVGGPPGKSSEPSTSL  
 GELEHYDLDMDEILDVPYIKSSQQLASF TKVTSEKRILGLCTTINGLSGKACSTGSSESSSNMAPFCVL  
 SPVKSPHLRKASAVIHDQHKLSTEETEISPLVKCGSAYEPENQSKDFLNKTFSDPHGRKVEKTTTPDCQL  
 RAFHLQSSAAESKPEEQVSGLNRTSSQGPEERSEYLLKVKVKSILNIVKEGQISLLPHLAADNLDKIHDENG  
 NNLLHIAASQGHAECLQHLTSLMGEDCLNERNTEKLTAPGLAIKNGQLECVRWMVSETEAIAELSCSKDF  
 PSLIHYAGCYGQEKILLWLLQFMQEQGISLDEVQDQNSAVHVASQHGYLEGCIQTLVEYGANVTMQNHAG  
 EKPSQSAERQGH TLCRYLVVVETCMLASQVVKLTKQLKEQTVERTVLQNLQQFLEAQKSEGKSLPSS  
 PSSPSSPASRKSQWKSPDADDDSVAKSKPGVQEGIQVLSASSRARP KAKDEDSKILRQLLGEI SE  
 NVCTQEKLSEFQDAQASSRNSKKIPEKRELKLARLRQLMQRSLSESDTDSNNEPKTTPVRKADRRP  
 PQPIVESVESMDSAESLHLMIKKHTLASGRRFPFSIKASKSLDGHSPTSSESSEPDLESQYPGSGSIP  
 PNQPSGDPQQPSPDSTAAQKVATSPKSALKSPSSKRRTSQNLKLRVTFEFPVQMEQPSLELNGEKDKDK  
 GRTLQRTSTSNESGDQLKRPFGAFRSIMETLSGNQNNNNYQAANQLKSTLPLTSLGRKTDAGNFPASS  
 ASKGKNKAA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

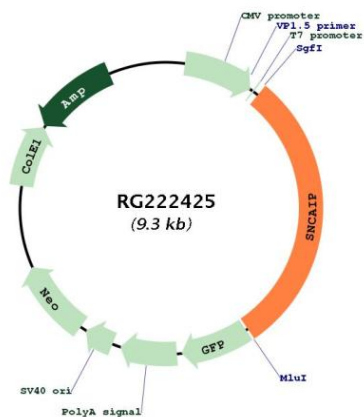


ACCN:

NM\_005460

<b>ORF Size:</b>	2757 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_005460.4</a>
<b>RefSeq Size:</b>	3569 bp
<b>RefSeq ORF:</b>	2760 bp
<b>Locus ID:</b>	9627
<b>UniProt ID:</b>	<a href="#">Q9Y6H5</a>
<b>Cytogenetics:</b>	5q23.2
<b>Domains:</b>	ANK
<b>Protein Pathways:</b>	Parkinson's disease
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG222425