

Product datasheet for **SC128032**

Synaptojanin (SYNJ1) (NM_203446) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptojanin (SYNJ1) (NM_203446) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptojanin
Synonyms:	DEE53; EIEE53; INPP5G; PARK20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_203446, the custom clone sequence may differ by one or more nucleotides

```

ATGCGGAAGAGATGGGCCTGCTGGAGCGGAAGTGACGCTCCCGCGGCTGTGGCGCGGCTGCGGGAGAA
GGAGGAGGAGGAGCCGGAGGAAGAGGGCTGCCTCCGAAGAAAGGAGAATGGCGTTCAGTAAAGGATTCCG
GATCTATCACAAATTGGATCCCCACCTTTTCAGCCTCATAGTGGAACTAGGCATAAGGAAGAATGTCTC
ATGTTTCGAGTCTGGGCTGTCGCTGTGCTCTCATCTGCAGAAAAAGGCAATCAAGGGTACATACTCCA
AAGTACTGGATGCATATGGACTCTTAGGTGTTCTGCGTTAAATCTTGGTGATACTATGTTACATTATCT
GGTCTAGTCACTGGATGTATGTCTGTTGAAAAATTCAAGAATCTGAAGTTTTCCGAGTACTTCCACT
GAGTTTATATCACTGCGAATCGATTCTTCAGATGAGGATCGCATTTCAGAAGTCCGAAAGTTTTGAATT
CAGGAAACTTTTTATTTTGCATGGTCTGCATCTGGCATCAGTTTAGATTTGAGTCTTAATGCGCATCGTAG
CATGCAAGAACAGACAACCTGATAATAGATTTTTCTGGAATCAGTCTTTCGATTTGCATCTCAAACACTAT
GGCGTGAATTGTGATGACTGGTTATTACGTCTTATGTGTGGAGGAGTAGAAATCAGAACAATTTATGCTG
CTCATAAACAGGCGAAGGCTTGCCTCATTTCAAGATTAAGCTGTGAACGAGCTGGGACCAGGTTTAAATGT
CCGGGGAACAAATGATGATGGTCATGTTGCCAATTTTGTAGAAACAGAACAGGTTGTGACTTAGATGAC
TCAGTTTCTTCCATCATACAAATCCGAGGATCTGTTCCATTGTTCTGGGAGCAACCAGGTTGCAAGTGG
GATCTCATCGTCCGTATGTCAAGGGGATTTGAAGCAATGCACCTGCTTTTGCAGGCATTTTAGAAC
ACTTAAGAACTTATATGGTAAACAAATAATAGTAAATTTGCTTGGATCTAAGGAAGTGAACATATGCTA
AGTAAAGCTTTCCAGAGTCATTTGAAAGCTTCTGAACATGCTGATATCCAGATGGTGAATTTTGACT
ATCATCAAATGGTTAAGGGAGGAAAGGCAGAAAAATTACATAGTGTCTTAAACCTCAAGTCCAGAAGTT
TCTAGATTATGGATTTTTTATTTCAATGGAAGTGAAGTCAAAGATGCCAGAGTGGTACAGTTCGAACA
AACTGCTTGGATTGTCTTGATAGAACAATAAGTGTGCAGGCATTTCTGGCTTAGAGATGCTAGCTAAAC
AGTTGGAAGCTCTGGTTTAGCTGAAAAGCCTCAGTTGGTACTCGCTTTCAAGAAGTTTTTCGGTCAAT
GTGGTCCGTGAATGGTATTCAATCAGTAAGATATATGCAGGAAGTGGAGCTCTTGAAGGAAAGCGAAG
TTAAAAGATGGTCTCGCTCTGTTACCCGAACAATTCAGAATAACTTCTTTGACAGCTCCAAGCAAGAGG
CCATTGATGTTTTGCTACTGGGAAATACTCTGAATAGTATTTAGCTGACAAAGCTCGAGCACTTTAAC

```



[View online >](#)

TACTGGAAGTTTGCCTGTTTCTGAGCAGACATTACAGTCAGCATCTTCTAAAGTACTAAAGAGCATGTGT
GAGAATTTCTACAAATATTCAAAGCCTAAGAAAATTCGAGTATGTGTCCGAACTGGAATGTGAATGGTG
GGAAGCAATTTCCGAGCATAGCTTTTAAAGAATCAGACACTCACTGACTGGCTTCTTGATGCACCCAAGTT
AGCTGGCATCCAGGAGTTTCAAGATAAAAGAAGTAAGCCAACATGATATTTTGAATTTGGTTTTGAAGAA
ATGGTAGAATTGAATGCTGGAACATTTGTGAGTGAAGCACAACAATCAGAAGCTCTGGGCTGTAGAAC
TTCAGAAGACAATCTCCAGAGACAACAAGTATGTGCTGCTGGCTTCTGAACAGTTGGTGGCGCTGTGTTT
GTTTGTGTTTTATCAGACCACAGCATGCTCCTTTTATCAGGGATGTTGCAGTTGATACTGTGAAGACTGGA
ATGGGAGGTGCAACTGGAATAAAGGGAGCAGTTGCAATCCGAATGCTCTCCATACAACCCAGCCTTGCT
TCGCTGTAGCCACTTCTGTCAGGGCAGTCACAAGTCAAAGAAAAGAAATGAAGATTTTATAGAAATAGC
ACGAAAATTGAGTTTTCTATGGGAAGGATGCTATTTTCCCATGACTATGTATTTTGGTGTGGTATTTT
AACTATCGAATCGATCTCCCTAACGAAGAAGTTAAAGAGCTCATAAGACAGCAAAATTTGGGATTCTCTTA
TAGCAGGAGATCAACTTATCAATCAGAAAAATGCTGGACAGGTTTTTAGAGGATTTTLAGAAGGAAAGGT
AACCTTTGCTCCGACATATAAGTATGACTTGTGTTTCTGACGACTATGACACCAGTAAAAGTGCCGCACC
CCTGCCTGGACAGACCGTGTCTTTGGAGAAGGAGGAAAATGGCCTTTTGTAGATCAGCTGAAGATCTAG
ATCTTCTAAATGCTAGTTTTCAAGATGAAAGCAAAATTTCTGTACACGTGGACTCCAGGCCTTTGCTGCA
CTATGGAAGAGCTGAGCTGAAGACTTCTGACCACAGGCCTGTCTGTCCTGATTGATATAGATATTTT
GAAGTTGAAGCTGAAGAGAGGCAAAACATTTATAAAGAAGTAATTGCAGTTCAGGGTCCACCAGATGGTA
CAGTATTTGGTCTCAATCAAAAGTTCTTTACCAGAAAATAATTTTTTGTATGATGCCTTGATTGATGAGCT
TCTGCAGCAGTTTGAAGTTTTGGTGAAGTTATACTTATAAGATTTGTAGAAGATAAAATGTGGGTTACA
TTTTTGGAGGGAAGCTCTGCCTTGAATGTTCTGAGCCTAAATGGTAAAGAGTTATTGAATCGGACTATAA
CTATTGCTTTAAAAAGTCCAGACTGGATCAAAAATTTGGAAGAAGAAATGAGTTTAGAGAAAATTAGCAT
TGCAATTGCCATCATCAACAAGCTCTACCCTGCTGGTGAAGATGCAGAGGTTGCAGCAGATTTTGTATG
GAAGTGATGTTGATGACTATAGTGTGAAGTGGAGGAACCTTCTCCTCAGCATCTCCAGCCATCTTCAA
GTTCCGGCCTTGGTACTTCCCCAGCTCTCACCCCGAACTAGTCCCTGCCAGTCACCTACAATATCAGA
GGTCTGTACCTTCCCTTCCCATCAGACCAAGCCGAGCACCGTCAAGAATCCTGGGCCTCCCAGTGCA
CAGAGTTCTCCTATTGACGCGCAGCCAGCAACGCGCTGCCGAGAAAAGACCCCGCCAGCCCTTGAGC
CCAAGCGGCCCGCCGCCCCGCGCTCGCCCTCCCACACGCCCCGCTCCCCACAGAGACCTCTCC
GCCTTCAAGGGCTAGGAGTCTGCACCCACTAGAAAGGAATTTGGAGGATTGGAGCCCTCCCAGTCT
GGGTAGCTAGGAGAGAGATGGAAGCACCCAAAAGCCCTGGAACAACAAGGAAAGATAATATAGGACGCA
GTCAGCCTTACCTCAAGCAGGACTTGCAGGCCAGGACCTGCTGGATACAGTACAGCCAGACCGACGAT
TCCTCCTCGTGTGGAGTTATCAGTCCCCACAGAGCCACGCGCGGCATCTGCTGGAAGACTGACTCCT
GAAAGCCAAGCAAAACATCAGAAACGTGAAAGGTTCAACTTCTCCTGAACCACTGAAGCCTCAGG
CTGCTTTTCTCCGAGTCTTCTTTGCCCCGCTGCTCAAAGGTTGCAAGAGCCTTGTCCCTGTGGC
AGCACCTATGCCTCAGTCTGGCCCCAGCCAAATTTGAAACCCACCAACCACCTCGAAGCAGG
TCATCCATAGCTTGCTTCCAGAAGCTTCTCACACCCGCAACAGGAGCAACCATCAGGGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_203446 unedited
 GGTGTTGGGGAAANNAGTTTTTTNNNNNNNTTNCCTACTCCCACCCGTTGCCGCATTGG
 GCGGTAGGCGTGTACGGTGGGNAGTCTATAAAGCAGAGCTCATTTAGGTGACACTATAG
 AATACAAGCTACTTGTCTTTTTGCAGCGGCCGCAATTCGGCACGAGGGCCGGAGGAAG
 AGGGCTGCCTCCGAAGAAAGGAGAATGGCGTTCAGTAAAGGATCCGGATCTATCACAAA
 TTGGATCCCCACCTTTCAGCCTCATAGTGAAACTAGGCATAAGGAAGAATGCTCATG
 TTCGAGTCTGGGCTGTGCTGTCTCATCTGCAGAAAAAGAGGCAATCAAGGGTACA
 TACTCAAAGTACTGGATGCATATGGACTCTTAGGTGTTCTGCGGTTAAATCTTGGTGAT
 ACTATGTTACATTATCTGGTCTAGTCACTGGATGTATGTCTGTTGAAAAATTCAAGAA
 TCTGAAGTTTTCCGAGTTACTTCCACTGAGTTTATCACTGCGAATCGATTCTTCAGAT
 GAGGATCGCATTTCAGAAGTGGGAAAGTTTTGAATTCAGGAACTTTTTATTTGCATGG
 TCTGCATCTGGCATCAGTTTAGATTTGAGTCTTAATGCGCATCGTAGCATGCAAGAACAG
 ACAACTGATAATAGATTTTTCTGGAATCAGTCTTTCATTTGCATCTCAAACACTATGGC
 GTGAATTGTGATGACTGGTTATTACGTCTTATGTGTGGAGGAGTAGAAATCAGAACAATT
 TATGCTGCTCATAAACAGGCCAAGGCTTGCCTCATTTTCAGAATAAGCTGTGAAACGAGCT
 GGACCAGNTTAAATGTCNCGNGAAACAAGATGATGGGTGATGTGCCAATTTTGTAGAAAC
 AGAACAGGTGTGACTTAGATGACTCAGTTTCTTCTTCATACAATCCGAGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_203446 unedited
 NCCCCATGGNGATGGCACTTCCAGNCCAGNANGAGCACTGGGGNAGGGTCACAGGGATG
 CCACCCGGGATCTGTTACGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTT
 TTTTTTTTTTTTTGTAAGACAGATATATTTATTTTCATATGACAGCACGTTTCACAGGA
 TATGTACAGAATGTCTGTGTACCACTGACTTTAACTGTACTTCTATAAAGTTTATAGT
 TATAAATATTGTATGCCACATAAGCAATAAAATCTTACATATAAACAGCAATCTAATAT
 AGAGAACACAGAGTTCACAAAGAGATCCTTAGTGTCTAACTTCTGCTCTGCTTTTAAACAG
 AACTAGTAAATATTTAATAATACATAGAATAATGGCTAGTTATTTGCAGCATACCTTTAA
 CTTTCATAACTTTGTGCATTTTCAGCAACTTGCCAAGTATAATTTTCTGATAAAGGCTG
 GGCTGCTGATATGTATATTTTAGACAGTAGTTTATATTCAATAGGAAACATTGCTCACAG
 ATCTGCAATTTGCACTAGTGAAGTTTACCTAACAAATGAATTATTTTGTAAATGGAGAGCA
 AATACCATATACACTAGTCACATGGATGTTAAAGCCACAGTTTCAACAAGTTAATTCACA
 TTTTGAAGCAACTGCTTATAGTAATACTGCTGTTTAAAGACGCTACTGCTGAAATGATTAG
 AACCTCCAAAAAGCACAATATAAACTCACAAGAGTTATTTCTAACAGCAAATCTTGCT
 GTTAACAGAGAAGATTACTTCTATAAATATAGTATTTTGATAACATTTGAGCATTAGAA
 AAATGCTTTTTTCTAATAGATTGCTTTATAAGTGCAGTGCAGTTTGTGCTTTTACA
 TTCTACATATTCA

Restriction Sites:

NotI-NotI

ACCN:

NM_203446

Insert Size:

7000 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).

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_203446.1](#), [NP_982271.1](#)

RefSeq Size: 7099 bp

RefSeq ORF: 3888 bp

Locus ID: 8867

UniProt ID: [O43426](#)

Cytogenetics: 21q22.11

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Gene Summary: This gene encodes a phosphoinositide phosphatase that regulates levels of membrane phosphatidylinositol-4,5-bisphosphate. As such, expression of this enzyme may affect synaptic transmission and membrane trafficking. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]
Transcript Variant: This variant (2) includes an alternate exon in the 3' coding region that causes a frameshift, compared to variant 1. The encoded isoform (b) has a distinct and shorter C-terminus, compared to isoform a.