

Product datasheet for **SC125373**

Synaptojanin 2 (SYNJ2) (NM_003898) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptojanin 2 (SYNJ2) (NM_003898) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptojanin 2
Synonyms:	INPP5H
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125373 sequence for NM_003898 edited (data generated by NextGen Sequencing)

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ATGGCCCTGAGCAAAGGGCTGCGGCTGCTGGGGCGCCTGGGGGCCGAGGGGGACTGTAGC
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Clone variation with respect to NM_003898.3

2352 t=>c;2556 g=>t;3090 a=>g;3303 g=>a;3402 a=>g;4403 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003898 unedited
 GAAAGGTTGTAGACTTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCAGGC
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003898 unedited
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 TCCTAGCAGTCAGCTTTTAGGACAGACATCCCCAGTCACGTAAGGGATGACACTTGATC
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 GCAAAAAAAAAATATTGGACCCAAACCATTATTGGGACAAAGGCAAAAACCCCAAGGAAA
 ACAACTTGGCCCTTGGGTGGATTCTTAATATTGCCAGGGGGACACCATAAGCAACTTTT
 TCCAATCCCGAAGCTTCCAGACCCGGGACAAGACCAAGGCTTGAAAACAATTTTCCA
 TATATTCTAAACCATGGAGAAAATAAATTATCCGCGTATTCCAACCAAGAGTTTTTCGAAC
 TGGGGGGCCTTTTTATGTGGAAG

Restriction Sites:

Please inquire

ACCN:

NM_003898

Insert Size:

5700 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_003898.2](#), [NP_003889.1](#)

RefSeq Size: 6738 bp

RefSeq ORF: 4491 bp

Locus ID: 8871

UniProt ID: [O15056](#)

Cytogenetics: 6q25.3

Protein Families: Druggable Genome, Phosphatase

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

Gene Summary: The gene is a member of the inositol-polyphosphate 5-phosphatase family. The encoded protein interacts with the ras-related C3 botulinum toxin substrate 1, which causes translocation of the encoded protein to the plasma membrane where it inhibits clathrin-mediated endocytosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). This variant (1) is also known as synaptojanin 2B or 2B2 (SJ2B2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.