

Product datasheet for **SC327252**

Synaptopodin (SYNPO) (NM_001166209) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptopodin (SYNPO) (NM_001166209) Human Untagged Clone
Tag:	Tag Free
Symbol:	Synaptopodin
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001166209, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGGTCTCACCTCCCACCTCCGCCCTTGACCCAGCGAAGGGAGGCCTACCCC
TGCGCCTTCCAGATCCCTGATGGAAGCTACAGGTGTCTGGCTCTGGAAGCCGAGGAGAGC
AGCGGTGAGGAGGGCCTGCAGGGAGAGGTGGGGCTACCGACCTGGAAGAGGATGAGGGG
GTCAGCAGGAGTGGGACGACTCTGCCTGCAGAGTCACCCAGGGGACACCCGACGTGCC
AAAGCCCTGGGCATCCAACCACCCAGCTGCTCCAGAGAGGAACAAGGGGGCTCCCAGCAC
GACGACAGGGCCAGCCAGGACTGGGATGTAGTGAAGGCCGGGAGATGATGACAGCCAGC
CCCAGCCCTGGCCCTGGGCCAGAGTGGCCAGAAACCAGCGTTGGGCCGGAGCACTAGC
CTCACGGAGAAGGATCTGAAAGAAGCCAAGCGCGGAGCCAGCAGATTGCAGCCAGCTG
ACCACCCCTCCCAGCTCCAATTCCTGGCGTCCAGCTCTTCAACAGGCGCCGGCAGAGG
GTGAACGAGTTACCTTGGAGAGCCACGGCCAGAGGGGACAGAAGCCAGCCAGGAGTCC
CTCAGAGTGTCCCTTCAAGCCTCCCAGGCCATGCACCGGGGCTCAGCCTGAGTCCACC
TCGCTGCCGGAGCCAGGCCCTCCACGGCACCCAGTCCCAGAGCCCGACAGAGGGGTC
CCTGGCCACAGCATGGAGGGTACTCAGAGGAGGCTAGCTTGCTCGGCACCTGGAGAAG
GTGGCCAGTGAGGAGGAAGAGGTACCACTGGTGGTTTATCTAAAGGAGAAATGCAGCACTG
CTGACAGCCAATGGGCTGCACCTGTCCAAAACCGAGAGGCCAGCAGTCTCACCGGCC
CCACCTCCAGCTGAGGTCCACAGCCAGCTGCAGATGTCAACAAAACCTTGCTCGCCC
AGTGCCACGCTCACACACCAACTTCTAACAGCAGCCACAATCCGCCAGCCACCGATGTC
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AATTCTCAGAGGCCAACTCCCATCTAATGGCACAGGGCCTGCTTCAAACCCAGCACC
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ATCCCCAGCTCCAGGCCCCAGCCTCAGATTTTCAATGTCAGCTCCCTGCTCATTGACATC
CAGCCCAACACCTAGTGGTGTGACGAGATCAAGAGATGCTGGGCGAGCAGCTGCCACC
ACGCCCACCAAGGTCTACAGTGAGGTCCACTTCACTGGCCAAGCCCCATCAGTGGTC
AACAGGACGGCCAGGCCTTTTGGGATCCAGGCGCCAGGGGGCACCAGCCAGATGGAGAGG
AGCCCCATGCTAGAGAGACGACATTTTGGGAGAAAGCCCGGCTCCCCAGCCCCCAGT
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AGGAGGATGATGGGGCAGCGAAGCCCGGCTCAGAGAGACGCCCTTGGGGAACCTCACT
GCACCCCCACCTACACTGAGACCTTGCCACAGCCCCTCTGGCTTCTGGGTGAGGTCT
CCTCCCTCATATTCTGTCTGTATCCCAGCTCCGACCCCAAGTCTTCTCATCTGAAGGGC
CAGGCGGTTCTGCCAGCAAGACGGGCATTCTGGAGGAGTCGATGGCCCGCCGGGGCAGC
CGCAAATCCATGTTTACTTTCTGGGAGAAGCCAAAGGTGACCCCGAATCCAGACTTGCTG
GATCTGGTACAGACAGCGGATGAGAAGCGGCGGACAGGGGACCAGGGGGAGGTAGGCGTG
GAGGAGGAGCCCTTCGCACTGGGGCCGAGGCCTCCAATTCCAGCAGGAGCCAGCACCT
CGTGACAGGGCCAGCCCCGCGGCGGAGGAGGTGGTACCAGAGTGGGCTCCTGCCTC
AAGTCACCCCGCATCCAGGCCAAGCCGAAGCCAAACCAACCAAGAACCTCTCCGAGGCC
TCTGGGAAGGGAGCTGAGCTCTACGCCCGCCGAGTACGGATGGAGAAATATGTCATC
GAGTCTTCAAGCCACACGCCAGAGCTGGCCCGCTGCCATCACCTACCATGTCCCTGCCT
TCTCCTGGAAATACCCACTAACGCCCCCGGGCCTTCCGAGTGGCATCCCGAAGCCCA
GCCCGGACCCCGCTGCCTCCCTCTACCATGGCTACCTGCCTGAGAACGGGGTCTGCGC
CCAGAGCCACCAAGCAGCCGCATACCAGCTGCGCCCTCGCTCTTTGTCTCTCACT
ATCAAGGAGCCTGCCAAGGTCTACCAAGAGCTGCCTCGCCCGCAAGCCAGCTCCTTG
GACCTGGTGCCCAACCTGCCAAGGGGGCTCTCCCTCCATCTCCTGCCCTGCCTCGGCC
TCGCGCTCCTCACGGGCTCTACACTCCCCCGCCAGGACAGCCTGCAGCCCACTGCC
GTGAGCCCTCCTACGGCGGTGACATCTCCCCGTGTCTCCCTCAGGGCGTGGTCTCCC
CGAGCCAAGCAGGCCCCAGGCCCTCTTCTCTACCCGGAACGCCGGGATCGAGGCTCAG
GTGTGGAAGCCTTCTTCTGCTTCAAG

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Restriction Sites: Please inquire
ACCN: NM_001166209

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001166209.1</u> , <u>NP_001159681.1</u>
RefSeq Size:	5114 bp
RefSeq ORF:	2790 bp
Locus ID:	11346
UniProt ID:	<u>Q8N3V7</u>
Cytogenetics:	5q33.1
Gene Summary:	<p>Synaptopodin is an actin-associated protein that may play a role in actin-based cell shape and motility. The name synaptopodin derives from the protein's associations with postsynaptic densities and dendritic spines and with renal podocytes (Mundel et al., 1997 [PubMed 9314539]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (4) has multiple differences compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at an alternate start codon, compared to variant 1. The encoded protein (isoform C) is longer than isoform 1 and contains unique N- and C-termini. Both variants 3 and 4 encode the same isoform (C).</p>