

## Product datasheet for **SC317128**

### Synaptopodin (SYNPO) (NM\_001109974) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptopodin (SYNPO) (NM_001109974) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYNPO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC317128 representing NM\_001109974.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAGGGGTACTCAGAGGAGGCTAGCTTGCTGCGGCACCTGGAGAAGGTGGCCAGTGAGGAGGAAGAG
GTACCACTGGTGGTTTATCTAAAGGAGAATGCAGCACTGCTGACAGCCAATGGGCTGCACCTGTCCCAA
AACCGAGAGGCCAGCAGTCTCACCGGCCACCTCCAGCTGAGGTCCACAGCCAGCTGCAGATGTC
AACCAAAACCTTGCCCTCGCCAGTGCCACGCTCACACACCAACTTCTAACAGCAGCCACAAATCCGCCA
GCCACCGATGTCAATCAGAACCCACCGCAACTGTTGTCCACAGAGCCTGCCACTTTCTAGCATCCAA
CAGAATTCCTCAGAGGCCAACTCCCATCTAATGGCACAGGGCTGCTTCCAAACCCAGCACCCCTGTGT
GCTGATGGGCAACCCAGGCACCGGCTGAGGAGGTGAGATGCAGCACACTCTAATTGACAAGGTATCA
ACTCCAGTACCACCACCAGCACCTTCTCCAGAGAAGCTACGCTCATCCCAGCTCCAGGCCCCAGCC
TCAGATTTTCATGTCAGTCCCTGCTCATTGACATCCAGCCAAACCCCTAGTGGTGTGAGCAGATCAA
GAGATGTCTGGGCGAGCAGCTGCCACCAGCCCAAGGTCTACAGTGAGGTCCACTTCACACTGGCC
AAGCCCCATCAGTGGTCAACAGGACGGCCAGGCCCTTTGGGATCCAGGCCAGGGGGCCAGCCAGCCAG
ATGGAGAGGAGCCCCATGCTAGAGAGACGACATTTTGGGAGAAGGCCCGGCTCCCCAGCCCCCAGT
TTGCCAGACAGGAGCCCCCGGCCACAGAGACACATAATGTCCCAGCCCCATGGTGGAAAGGAGGATG
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GAGTCGATGGCCCGCGGGCAGCCGCAATCCATGTTTACTTTCTGGAGAAGCCCAAGGTGACCCCG
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CGAGTGGCATCCGAAGCCAGCCCGGACCCCGCTGCCTCCCTTACCATGGCTACCTGCCTGAGAAC
GGGTCTGCGCCAGAGCCCAAGCAGCCGCATACCAGCTGCGCCCTCGCTTTTGTCTCTCA
CCTATCAAGGAGCTGCCAAGGTCTACCAAGAGCTGCCTCGCCGCCAAGCCAGCTCCTTGACCTG
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GGCTCTACACCTCCCCGGCCAGGACAGCCTGCAGCCACTGCCGTGAGCCCTCCTTACGGCGGTGAC
ATCTCCCCGTGTCTCCCTCCAGGGCGTGGTCTCCCCGAGCCAAGCAGGCCCCAGGCCCTCCTTCTCT
ACCCGGAACGCCGGGATCGAGGCTCAGGTGTGGAAGCCTTCTTCTGCTTCAAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_001109974

**Insert Size:** 2058 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).

<b>OTI Annotation:</b>	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.
<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>	<u><a href="#">NM_001109974.2</a></u>
<b>RefSeq Size:</b>	4617 bp
<b>RefSeq ORF:</b>	2058 bp
<b>Locus ID:</b>	11346
<b>UniProt ID:</b>	<u><a href="#">Q8N3V7</a></u>
<b>Cytogenetics:</b>	5q33.1
<b>MW:</b>	73.7 kDa
<b>Gene Summary:</b>	<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 (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (B), also referred to as 'Synpo-short', has a distinct C-terminus and is shorter than isoform 1.</p>