

Product datasheet for **SC327251**

Synaptopodin (SYNPO) (NM_001166208) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptopodin (SYNPO) (NM_001166208) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYNPO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



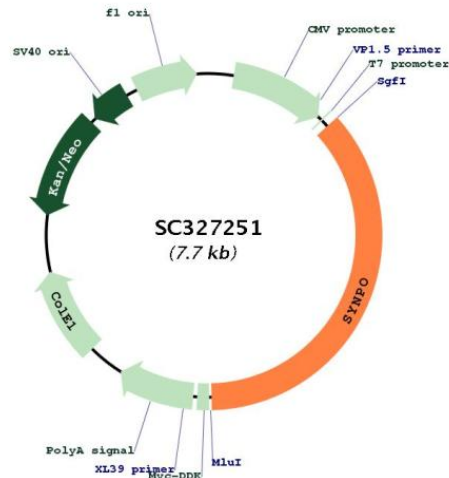
[View online »](#)

Fully Sequenced ORF: >SC327251 representing NM_001166208.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTGGGTCTCACCTCCACCTCCGCCCTTGACACCCAGCGAAGGGAGGCCTACCCCTGCGCCTTC
CAGATCCCTGATGGAAGCTACAGGTGTCTGGCTCTGGAAGCCGAGGAGAGCAGCGGTGAGGAGGGCCTG
CAGGGAGAGGTGGGGCCTACCGACTGGAAGAGGATGAGGGGGTCAGCAGGAGTGGGGACGACTCTGCC
TGCAGAGTCAACCCAGGGACACCCGAGCTGCCAAAGCCCTGGGCATCCAACACCCAGCTGCTCCAGA
GAGGAACAAGGGGCGTCCAGCACGACGACAGGGCCAGCCAGGACTGGGATGTAGTGAAGGCCGGGCAG
ATGATGACAGCCAGCCCCAGCCCTGGCCCTGGGCCAGAGTGGCCAGAAACCAGCGTTGGGCCGGAGC
ACTAGCCTCACGGAGAAGGATCTGAAAGAAGCCAAGGCGCGGAGCCAGCAGATTGCAGCCAGCTGACC
ACCCCTCCAGCTCCAATTCCCCTGGCGTCCAGCTCTTCAACAGGCGCCGGCAGAGGGTGAACGAGTTC
ACCTTGGAGAGCCAGGGCAGAGGGGACAGAAGCCAGCCAGGAGTCCCTCAGAGTGCTCCCTTCAAGC
CTCCCAGGCCATGCACCGGGGCTCAGCCTGAGTCCACCTCGCTGCCGGAGCCAGGCCCTCCACGGCAC
CCCAGTCCCAGAGCCCCGACAGAGGGGTCCCTGGCCACAGCATGGAGGGGTACTCAGAGGAGGCTAGC
TTGCTGCGGCACCTGGAGAAGGTGGCCAGTGGAGGGAAGAGGTACCACTGGTGGTTTATCTAAAGGAG
AATGCAGCACTGTGACAGCCAATGGGCTGCACCTGTCCAAAACCGAGAGGCCAGCAGTCTCACCG
GCCCCACCTCCAGCTGAGGTCCACAGCCAGCTGCAGATGTCAACCAAAACCTTGCTCGCCAGTGCC
ACGCTCACACACCAACTTCTAACAGCAGCCACAATCCGCCAGCCACCGATGTCAATCAGAACCCACCG
GCAACTGTTGCCACAGAGCCTGCCACTTTCTAGCATCCAACAGAATTCCTCAGAGGCCAACTCCCA
TCTAATGGCACAGGGCCTGCTTCCAACCCAGCACCCCTGTGTGCTGATGGGAACCCAGCCAGCCGGT
GAGGAGGTGAGATGCAGCACACTCCTAATTGACAAGGTATCAACTCCAGTACCACCAGCAGCCTTC
TCCAGAGAAGCTACGCTCATCCCCAGCTCCAGGCCCCAGCCCTCAGATTTTCATGTCCAGCTCCCTGCTC
ATTGACATCCAGCCCAACACCCTAGTGGTGTGAGCAGATCAAGAGATGTCTGGGGAGCAGCTGCCACC
ACGCCCACCAAGGTCTACAGTGAGGTCCACTTCACACTGGCCAAGCCCCATCAGTGGTCAACAGGACG
GCCAGGCCTTTGGGATCCAGGCGCCAGGGGGCACCAGCCAGATGGAGAGGAGCCCCATGCTAGAGAGA
CGACATTTGGGGAGAAGGCCCGGCTCCCGAGCCCCCAGTTTGCCAGACAGGAGCCCCGGCCACAG
AGACACATAATGTCCCGAGCCCCATGGTGAAAGGAGGATGATGGGGCAGCGAAGCCCGGCTCAGAG
AGACGCCCTTGGGGAACCTCACTGCACCCCCACCTACACTGAGACCTTGTCCACAGCCCTCTGGCT
TCCTGGGTGAGGTCTCCTCCCTCATATTCTGTCTGTATCCAGCTCCGACCCCAAGTCTTCTCATCTG
AAGGGCCAGGCGTTCTGCCAGCAAGACGGGCATTCTGGAGGAGTCGATGGCCCCCGGGGACGCCGC
AAATCCATGTTTACTTTCTGTGGAGAAGCCAAAGGTGACCCCAATCCAGACTTGCTGGATCTGGTACAG
ACAGCGGATGAGAAGCGGCGGCAGAGGGACCAGGGGGAGGTAGGCGTGGAGGAGGAGCCCTTCGCACTG
GGGGCCGAGGCCCTCAACTTCCAGCAGGAGCCAGCACCTCGTACAGGGCCAGCCCCGCGGGCGGAG
GAGGTGGTACCAGAGTGGGCCTCCTGCCTCAAGTACCCCGCATCCAGGCCAAGCCGAAGCCCAAAACC
AACCAGAACCTCTCCGAGGCCTCTGGGAAGGGAGCTGAGCTCTACGCCCGCCAGTACCGGATGGAG
AAATATGTTCATCGAGTCTTCAAGCCACAGCCAGAGCTGGCCCGTGGCCATCACCTACCATGTCCCTG
CCTTCTCCTGGAATACCCCACTAACGCCCCCGGGGCTTCCGAGTGGCATCCCGAAGCCAGCCCGG
ACCCCGCCTGCCTCCCTTACCATGGCTACCTGCCTGAGAACGGGGTCTGCGCCAGAGCCACCAAG
CAGCCGCCATACCAGCTGCGCCCTCGCTCTTGTCTCTCACCTATCAAGGAGCCTGCCAAGGTCTCA
CCAAGAGCTGCCTCGCCCGCAAGCCAGCTCCTTGGACCTGGTGCACCACTGCCAAGGGGGCTCTC
CCTCCATCTCCTGCCCTGCCTCGGCCCTCGCGCTCCTACCGGGCTCTACACCTCCCCGGCCAGGAC
AGCCTGCAGCCACTGCCGTGAGCCCTCTTACGGCGGTGACATCTCCCCGTGTCTCCCTCAGGGCG
TGGTCTCCCCGAGCCAAGCAGGCCCCAGGCCCTCCTTCTTACCCGGAACGCCGGGATCGAGGCTCAG
GTGTGGAAGCCTTCTTCTGCTCAAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001166208

Insert Size: 2790 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).

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:

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_001166208.1](#)

RefSeq Size: 5181 bp

RefSeq ORF: 2790 bp

Locus ID: 11346

UniProt ID: [Q8N3V7](#)

Cytogenetics: 5q33.1

MW: 99.5 kDa

Gene Summary: 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]

Transcript Variant: This variant (3) 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).