

Product datasheet for **RG214922**

Synaptopodin (SYNPO) (NM_007286) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptopodin (SYNPO) (NM_007286) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Synaptopodin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG214922 representing NM_007286
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGGGTTACTCAGAGGAGGCTAGCTTGTCTGCGGCACCTGGAGAAGGTGGCCAGTGAGGAGGAAGAGG
 TACCACTGGTGGTTTATCTAAAGGAGAATGCAGCACTGCTGACAGCCAATGGGCTGCACCTGTCCAAAA
 CCGAGAGGCCAGCAGTCTCACCGGCCACCTCCAGCTGAGGTCCACAGCCCAGCTGCAGATGTCAAC
 CAAAACCTTGCCTCGCCAGTGCACGCTCACCACACCAACTTCTAACAGCAGCCACAATCCGCCAGCCA
 CCGATGTCAATCAGAACCACCGCAACTGTTGTCCACAGAGCCTGCCACTTTCTAGCATCCAACAGAA
 TTCCTCAGAGGCCAACTCCCATCTAATGGCACAGGGCTGCTTCAAACCCAGCACCTGTGTGCTGAT
 GGGCAACCCAGGCACCGGTGAGGAGGTGAGATGCAGCACACTCCTAATTGACAAGGTATCAACTCCAG
 CTACCACCACCAGCACCTTCTCCAGAGAAGCTACGCTCATCCCAGCTCCAGGCCCCAGCTCAGATTT
 CATGTCCAGCTCCCTGCTCATTGACATCCAGCCAAACACCTAGTGGTGTGAGCAGATCAAGAGATGTCT
 GGGCGAGCAGCTGCCACCACGCCACCAAGGTCTACAGTGAAGTCCACTTCACTGAGCCAGCCCAT
 CAGTGGTCAACAGGACGGCCAGGCTTTTGGGATCCAGGCAGCCAGGGGACCAGCCAGATGGAGAGGAG
 CCCCATGTAGAGAGACGACATTTTGGGAGAAGGCCCGGCTCCCCAGCCCCCAGTTTGCAGACAGG
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 TCTTCTCATGAAGGGCCAGGCGGTTCTGCCAGCAAGACGGGATTCTGGAGGAGTCGATGGCCCGCC
 GGGCAGCCGCAATCCATGTTTACTTTCTGGAGAAGCCAAAGGTGACCCGAATCCAGACTTGTGGA
 TCTGGTACAGACAGCGGATGAGAAGCGCGCAGAGGGACCAGGGGAGGTAGGCGTGGAGGAGGAGCCC
 TTCGACTGGGGCCGAGGCTCCAACCTCCAGCAGGAGCCAGCACCTCGTGACAGGGCCAGCCCCGCG
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 ATGGAGAAATATGTCATCGAGTCTTCAAGCCACACGCCAGAGCTGGCCCGCTGCCATCACCTACCATGT
 CCCTGCCTTCTCTGAAATACCCCACTAACGCCCGGGGCTTCCGAGTGGCATCCCGAAGCCAGC
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 AAGCAGCCGCATACCAGCTGCGCCCTCGCTCTTTGTCTCTCACCTATCAAGGAGCCTGCCAAGGTCT
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 TCCCCGCGGTGCGCGGGCGCCGAGAACCAGCGGCCCTTCTCCCCGCCAGGGCGCCACCGCCCCGCCCC
 CGCCCCGCCCCCGCCCCGCGCATGCGCTCGCCACAGCCCGCCCGCCCGGCTCGGCTGTGTGCCGG
 GGCAGCCTTGCGCCATCCCGCGAGCCGTTGCCCGCGGTCTTCTGCTGCACCAAGTCCCCGAGC
 CCGCTGCCCGGCTCCAGGCCCTTCTTACCAGCCGCTCGCCACGGACTCCGACGTGTCCCTCGACT
 CCGAGGACTCCGGGGCTAAGTCTCCAGGCATCTGGGCTACAATATCTGTCCCCGCGGTGGAATGGCAG
 CCTTCGGTCAAGCGTGGCAGCCTCCCCCGGAGGCTCCTGCACCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214922 representing NM_007286
Red=Cloning site Green=Tags(s)

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MEGYSEEASLLRHLEKVAEEEEVPLVVYLKENAALLTANGLHLSQNREAAQQSSPAPPPAEVHSPAADV
QNLASPSATLTTPTSNSSHNPPATDVNQNPATVVPQSLPLSSIQNSSEAQLPSNGTGPASKPSTLCAD
GQFQAPAAEEVRCSTLLIDKVSTPATTSTFSREATLIPSSRPPASDFMSSLLIDIQNTLVVSADQEMS
GRAAAATPTKVYSEVHFTLAKPPSVVNRTARPFGIQAPGGTSQMERSPMLERRHFGEKAPAPQPPSLPDR
SPRPQRHIMSRSMPVERMMGQRS PASERRPLGNFTAPPTYTETLSTAPLASWVRSPPSYSVLYPSSDPK
SSHLKGGQAVPASKTGILEESMARRGSRKSMFTFVEKPKVTPNPDLLDLVQTADKRRQRDQGEVGVVEEP
FALGAEASNFFQEPAPRDRASPAEEEEVPWASCLKSPRIQAKPKPKPNQNLSEASGKGAELYARRQSR
MEKYVIESSHTPELARCPSTMSLPSSWKYPTNAPGAFRVASRSPARTPPASLYHGYPENGLRPEPT
KQPPYQLRPSLFVLSPIKEPAKVS PRAASPAKPSSLDLVPNLPGALPPSPALPRPSRSPGLYSPGQD
SLQPTAVSPPYGGDISPVSPSRAWS PRAKQAPRPSFSTRNAGIEAQDRRESLPTSPWPWPGASRPPSSLD
GWVSPGPWEPGRGSSMSSPPPLPPPPMSPSWERSVSPLRPETEARPPSRQLQALLARNIINAARRKSA
SPRSAGAENPRPFSPPRAPPPPPPPPPPPMRSPQPARPGSAAVPGAFAPIPRSPLPAGPSSCTSPRS
PLPAPPRPFLYRRSPTSDVSLDSEDSGAKSPGILGYNICPRGWNGSLRLKRGSLPAEASCTT
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_007286

ORF Size: 2709 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_007286.6](#)

RefSeq Size: 3524 bp

RefSeq ORF: 2712 bp

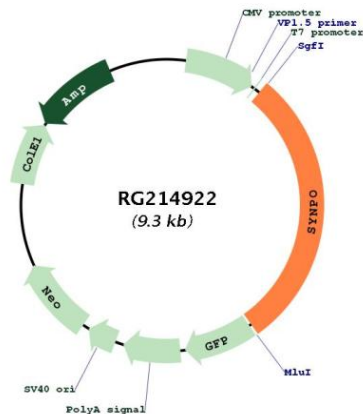
Locus ID: 11346

UniProt ID: [Q8N3V7](#)

Cytogenetics: 5q33.1

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]

Product images:



Circular map for RG214922