

Product datasheet for **RG226089**

Synaptopodin (SYNPO) (NM_001109974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptopodin (SYNPO) (NM_001109974) 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:

>RG226089 representing NM_001109974
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGGTACTCAGAGGAGGCTAGCTTGTCTGCGGCACCTGGAGAAGGTGGCCAGTGAGGAGGAAGAGG
 TACCACTGGTGGTTTATCTAAAGGAGAATGCAGCACTGCTGACAGCCAATGGGCTGCACCTGTCCAAAA
 CCGAGAGGCCCAGCAGTCTCACCGGCCACCTCCAGCTGAGGTCCACAGCCCAGCTGCAGATGTCAAC
 CAAAACCTTGCCTCGCCAGTGCACGCTCACCACACCACTTCTAACAGCAGCCACAATCCGCCAGCCA
 CCGATGTCAATCAGAACCACCGCAACTGTTGTCCACAGAGCCTGCCACTTTCTAGCATCCAACAGAA
 TTCCTCAGAGGCCAACTCCCATCTAATGGCACAGGGCTGCTTCAAACCCAGCACCTGTGTGCTGAT
 GGGCAACCCAGGCACCGGTGAGGAGGTGAGATGCAGCACACTCCTAATTGACAAGGTATCAACTCCAG
 CTACCACCACCAGCACCTTCTCCAGAGAAGCTACGCTCATCCCCAGCTCCAGGCCCCAGCCTCAGATTT
 CATGTCCAGCTCCCTGCTCATTGACATCCAGCCAACACCCTAGTGGTGTGAGCAGATCAAGAGATGTCT
 GGGCGAGCAGCTGCCACCACGCCACCAAGGTCTACAGTGAAGTCCACTTCACTGGCCAAGCCCCCAT
 CAGTGGTCAACAGGACGGCCAGGCTTTTGGGATCCAGGCAGGGGGACCAGCCAGATGGAGAGGAG
 CCCCATGTAGAGAGACGACATTTTGGGAGAAGGCCCGGCTCCCCAGCCCCCAGTTTGCAGACAGG
 AGCCCCCGGCCACAGAGACACATAATGTCCCGCAGCCCCATGGTGGAAAGGAGGATGATGGGGCAGCGAA
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 AGCCCCCTGGCTTCTGGGTGAGGTCTCTCCCTCATATTCTGTCTGTATCCCAGCTCCGACCCCAAG
 TCTTCTCATCTGAAGGGCCAGGCGGTTCTGCCAGCAAGACGGGATTCTGGAGGAGTCGATGGCCCGCC
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 TTCGCACTGGGGCCGAGGCTCCAACCTCCAGCAGGAGCCAGCACCTCGTGACAGGGCCAGCCCCGCG
 CGGCGGAGGAGGTGTTACAGAGTGGGCTCCTGCCTCAAGTACCCCGCATCCAGGCCAAGCCGAAGCC
 CAAACCAACAGAACCTCTCCGAGGCTTGGGAAGGAGCTGAGCTTACGCCCGCCGAGTACAGG
 ATGGAGAAATATGTCATCGAGTCTTCAAGCCACAGCCAGAGCTGGCCCGCTGCCATCACCTACCATGT
 CCCTGCCTTCTCTGAAATACCCCACTAACGCCCGGGGCTTCCGAGTGGCATCCCGAAGCCAGC
 CCGGACCCCGCTGCCTCCCTTACCATGGCTACCTGCCTGAGAACGGGTCTGCGCCAGAGCCACC
 AAGCAGCCGCATACCAGCTGCGCCCTCGCTCTTTGTCTCTCACCTATCAAGGAGCCTGCCAAGGTCT
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 CCCTCCATCTCCTGCCCTGCCTCGGCCCTCGCGCTCCTACCCGGGCTCTACACCTCCCCCGCCAGGAC
 AGCCTGCAGCCACTGCCGTGAGCCCTCTTACGGCGGTGACATCTCCCCGTGTCTCCCTCCAGGGCGT
 GGTCTCCCGAGCCAAGCAGGCCCCAGGCCCTCCTTCTACCCGGAACGCCGGATCGAGGCTCAGGT
 GTGGAAGCCTTCTTCTGCTTCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226089 representing NM_001109974
 Red=Cloning site Green=Tags(s)

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MEGYSEEASLLRHLEKVAEEEEVPLVVYLKENAALLTANGLHLSQNREAAQQSSAPPPAEVHSPAADV
QNLASPSATLTTPTSNSSHNPPATDVNQNPATVVPQSLPLSSIQNSSEAQLPSNGTGPASKPSTLCAD
GQPQAPAEVRCSTLLIDKVPSTATTTSTFSREATLIPSSRPPASDFMSSLLIDIQNTLVVSADQEMS
GRAAAATPTKVYSEVHF TLAKPPSVVNRTARPFGIQAPGGTSQMERSPMLERRHFGEKAPAPQPPSLPDR
SPRPQRHIMSRSPMVERRMMGQSRPASERRPLGNFTAPPTYTETLSTAPLASWVRSPPSYVLYPSSDPK
SSHLKGQAVPASKTGILEESMARRGSRKSMFTFVEKPKVTPNPDLLDLVQTADEKRRQRDQGEVGVVEE
FALGAEASNFQQEPAPRDRASPAAAEEVPEWASCLKSPRIQAKPKPKPNQNLSEASGKGAELYARRQSR
MEKYVIESSHTPELARCPSTMSLPSSWKYPTNAPGAFRVASRSPARTPPASLYHGYPENGLRPEPT
KQPPYQLRPSLFVLSPIKEPAKVPRAASPAKPSLDDLVPNLPGALPPSPALPRPSRSSPGLYSPGQD
SLQPTAVSPPYGGDISPVSPRAWSPRAKQAPRPSFSTRNAGIEAQVWKPSFCFK
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001109974

ORF Size: 2055 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_001109974.3](#)

RefSeq Size: 4611 bp

RefSeq ORF: 2058 bp

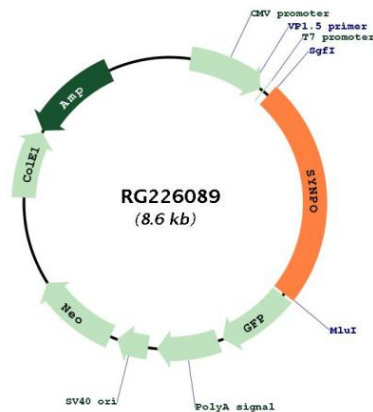
Locus ID: 11346

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 RG226089