

Product datasheet for **RR212984**

Synpo (NM_021695) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synpo (NM_021695) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Synpo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR212984 representing NM_021695
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGGTACTCAGAGGAAGCCAGTCTGCTGCGGCACCTGGAGAAGGTTGCCAGTGAGGAGGAAGAAG
 TACCATTGGTAGTTTACTTAAAGGAGAATGCAGCCCTGCTGACAGCTAATGGACTGCACCTGTCCCAGAA
 CCGAGAGACCCAGCAGTCTCACCAAACCTCCTGAAACGGAGGAAGTGCCAGCCAGCTGCAGATATC
 AACAGAACCCCTCCTCTCCAATGCCACGCTCACACAGCAGCCTTAACAGCCACCACAACCAACCCA
 CCGCTGATGTCAATCAAAACCCCCAGCCACTATACCCCTGTCCAACAAAATTCATCTGAGACACAGTG
 TTCCCGAATGGCAGCTTGATTCAAACCCAACACTCCAAGCGTGATGATGGGAGCGCCCGGTGCCA
 GCAGAGGAAGTGAGTCCAGCATTCTCCTGATTGACAAGGTGCCGCTCCACCATCTGCCCCAGCCCT
 TCTCTAGAGAAGTACTCCCTCTCCAGCTCTGGGCCACCAGCTGCAGATCTCATGTCCAGCTCTCTGCT
 CATTGGCATGCAGCTAGCACCTAGTGGCATCAGCAGAAACAGAGGTGTCTGGACATGCAGCTGTACC
 ACGCCCACTAAGGTGTATAGTGAAGTACATCTCACACTAGCCAAGCCTGCATCCGTGGTCAACAGGACCG
 CCAGGCCATTTGGGATGCAGTCGCCAGGACTACCAGCCAGATAGAGCAAAGTCCATGATGGGAAGACG
 ACATTTTGGAGAGAAGGCTGGGCTCCCCAGCTAGCAGTATGGCGGATAGGAGTCCCAGCCACAGAGG
 CACATAATGGCCCGCAGTCCCATGGTAGAAAGGAGGCTGGTTGGGAGCGAAGCCCGTTGTAGAGAGAC
 GCCCTTAGGAACTTTACCCACCCCCACCTATGCGGAGACTTTGTCAACAGCCCCCGTGGCTTCCCA
 GGTTAGTCTCCTCCCTTATTCTACTCTGTATCCCAGCTCTGACCCCAAGCCTCCCATTGAAGGGC
 CAGGTAGTTCCTGCCAACAGACAGGAATTTTGAAGAATCTATGGCACGCCGAGGCAGCCGAAATCAA
 TGTTACGTTTCGTGGAGAAGCCTAAGGTGACGCCGAATCCAGACTTGCTGGACCTCGTGACAGCTGA
 TGAGAAGCGGAGGCAGAGAGACCAAGGGGAGGTGGGCATGGAAGACGAGCCCTTTGCCCTGGGAGCTGAG
 GCCTCAAATTCAGCAGGAGCCAATAGCTCGGGACAGGTCCGGCCCTGCGGCAGCTGAGGAGACTGTCC
 CTGAATGGGCTTCTGCCTCAAGTCAACCCGTATCCAGGCTAAGCCGAAGCCCAAACCAACCAGAATCT
 CTCAGAGGCCCTCAGGGAAGGGGCTGAGCTCTATGCCCGCCGAGTACCGGATGGAGAAATACGTCATA
 GAGTCGTGAGGCCATGCGGAATTGGCTCGCTGCCCTTACCTACTATGTCATTGCCTTATCCTGGAAGT
 ACACCACTAATGCCCTGGGGCTTCCGAGTGGCGTCTTAAGCCAGCGCGGACTCCGCTGCCTCTCT
 CTACCACGGCTATCTGCCAGAGAATGGAGTCTGCGCCAGAGCCTACCAAGCAGCAGCCACACCAGATG
 AGGCTTCACTCTATGCTCTGTGCGCGTCAAGGAACCTGCCAAGATCTCATCACGTGCCACCTCGTCAC
 GCGCTTGTGTCAGCACTGTCTACCTCGTGTGCTCCCGGCCAAGCCTAGCTCCCTGGACCTGGTGCC
 CAACCTGCCAGAGCAGGCTCCACCGTCTCCTGCGCTTCTCGGCCTTCCCGCTCTCCCAGGCCCTC
 TACAATGCCCCAGTCCAGGACAGCCTCCAGCCACTGCCGTGAGCCCCACCTACAGCAGTGATATCTCCC
 CCGTGTCTCCCTCCAGGGCGTGGTCTCCTCGAGCCAAGCAGGCCCCAGGCCCTTCTTCTCCACCCGGAA
 TGCTGGGATCGAGGCCAGGTGTGGAACCTTCTTCTGCTTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212984 representing NM_021695
Red=Cloning site Green=Tags(s)

MEGYSEEASLLRHLEKVAEEEEVPLVVYLKENAALLTANGLHLSQNRETQQSSPNPETEEVPSAADI
 NQNPSSPNATLTTAASNHHNQPTADVQNPPATITPVQQNSSETQCSPNGTLDKPNTPSADDGQRVVP
 AEEVRSSILLIDKVSAPPSAASPFSREATPLSSSGPPAADLMSSSLLIGMQPSTLVASAEQEVSGHAAVT
 TPTKVYSEVHLTLAKPASVVNRTARPFMQSPGTTSQIEQSPMMGRRHFGEKAWAPPASSMADRSPQQR
 HIMARSPMVERRLVQQRSPVVERRPLGNFTPPPTYAETLSTAPVASQVRSPPSYSTLYPSSDPKPPHLKG
 QVVPANKTGILEESMARRGSRKSMFTFVEKPKVTPNPDLDDLVTADEKRRQRDQGEVGMEDPEFALGAE
 ASNFQQEPIARDRSGPAAAEEVPEWASCLKSPRIQAKPKPKPNQNLSEASGKGAELYARRQSRMEKYVI
 ESSGHAELARCPSTMSLPSSWKYTTNAPGGFRVASLSPARTPPASLYHGYLPENGLRPEPTKQQPHQM
 RPSLYALSPVKEPAKISSRATSSRASSRTVSPRAASPAKPSLDDLVPNLPRAGLPPSPALPRPSRSSPGL
 YNAPVQDSLQPTAVSPTYSSDISPVSPSRAWSAPRAKQAPRPSFSTRNAGIEAQVWKPSFCFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_021695

ORF Size: 2076 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_021695.2](#), [NP_067727.2](#)

RefSeq Size: 2678 bp

RefSeq ORF: 2079 bp

Locus ID: 60324

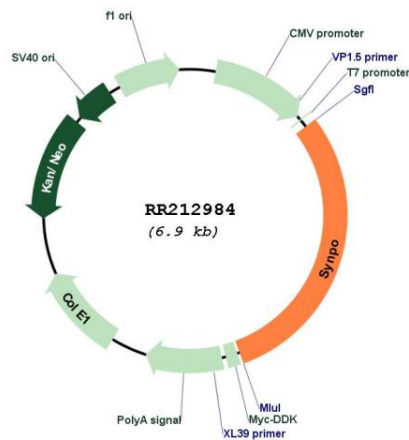
UniProt ID: [Q9Z327](#)

Cytogenetics: 18q12.1

MW: 74.3 kDa

Gene Summary: may associate with actin to regulate cell shape; may play a role in synaptic plasticity [RGD, Feb 2006]

Product images:



Circular map for RR212984