

## Product datasheet for **RC226285**

### **SYNPO2L (NM\_001114133) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | SYNPO2L (NM_001114133) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                       |
| Symbol:                   | SYNPO2L                                       |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-Entry (PS100001)                        |
| E. coli Selection:        | Kanamycin (25 ug/mL)                          |



[View online »](#)

**ORF Nucleotide Sequence:**

>RC226285 representing NM\_001114133  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTGCTGAGGAGAGGTGCTGGTCACACTATCAGGGGAGCCCCCTGGGGCTTCCGACTTCATGGGG  
 GGGCCGAGCAGAGGAAACCGTTACAGGTGTCTAAGATTGGAAGACGGAGCCAGGCTGGCAGAGCAGGACT  
 CCGAGAGAGGGACCAGCTCTTGGCAATCAATGGGGTCTCTTGACCAACCTCTCCCATGCCAGTGCCATG  
 AGCCTCATCGATGCCTCAGGAAATCAGCTTGTCTCCTCACTGTGCAGCGGTTAGCAGACGAGGGTCTGTGC  
 AATCTCCATCTCCCATGAGCTTCAAGTGTGTCACTTATCTCCACTAAGTCTGAGCCCCCTGGTGC  
 TCCAGTTCCTCAGCCTTTCAGCCTGGGAGCCTTCGTTACCTCCTGATAGTGAGGCTTACTACGGAGAG  
 ACTGACAGTGATGCTGATGGCCCTGCCACCCAGGAGAAGCCCCGTCGACCTCGCCCGGAGGCCCAAA  
 GGCCACCCCTCCGGGTGCCACCTGATGAGGTCTACCTGTCTGACAGCCCTGCAGAGCCAGCACCTAC  
 TATCCCTGGCCCTCCAGCCAGGGTGCAGCCGTGTGAGCTCCCGTCTTGGGAGGATGGGGCAGCCCTT  
 CAGCCACCCCACTGAGGCTCTGCTGTTACCCATGGCCCCCTCCGACCTGGTCCCTCATCTCATCCCTA  
 TGGTGGGGCTGTTCCCAACCCAGTGGCAGAAGATCTTACTACCACCTACACCCAGAAGGCCAAGCAAGC  
 CAACTGCAACGTGCAGAGAGCCTCAAGAGAAGAGCATAAAAGAGGCCAAGACCAAATGCAGGACAATT  
 GCATCCCTGCTCACTGCAGCCCCAACCCCACTCCAAAGGGTACTTATGTTTAAAGAAACGGCGGAGAG  
 GAGCAAGAAGTACACCTGGTGAAGTTCGGGGTCTGCTGGGACAGGCGCTGAGGAGGAGGACGGCGT  
 TCCCCCACGAGTGAGTCCGAGCTGGACGAAGAAGCCTTCTGACGCCCCGAGCCTCACAATCAATCT  
 GACTGGGACAGTCCCTATCTGGACATGGAGTCTGGGGCAGGGGTCAAGAGCATCAGAGGGCCAGGGCT  
 TGGGGTGGGAGGGCAGCTGAGTGAGTCTTGGGGCAGGGGTGCAGCTTTTGAACAGCAGCGCCAGCG  
 CGCAGACTCCAGCACCCAGGAACTGGCAGGGTGAACACAGCAGCCATGCTCAACGGGGAAGGCCTGCAG  
 TCAACCTCGGGCCAGAGTGCTCCCCAGAGGAGCTGTGCTCCACCCAGCCCTTGGCGGCGCTG  
 TAGCCAGCCCCAGACCCTTCAACCCAGGTGGTGGAGCCCCGACCCAGCTCCAAGCATCTTAAACGGT  
 AGCCAGGCCCTTACCCCGGCCACAAGGGCAGCGGCAACTACCACCTCGGTTATTTTCCGGCCTTAA  
 GCCCCAAAAGGGGCAACGACAGCCTGGGGGGCTCAGCCCCGCCACCCCTTCTTGTCTTCGAGG  
 GGCCACCCCTCTGCCAGCTTCACTTCAGGGTTCAGCCACGCGCCAGTCTCTGTTCCCCAGCAC  
 CCCAGCTCCTCGGGCCTGTGACAGCCACCAGCTCCCTGTACATCCAGCCCTAGTCGGCCTGTACC  
 CCAGGTGGAGCTCCAGAGCCCCGCTCCTCCTAGCGCAGCTGCCATGACCTCCACCGCTTCTATCTTC  
 TATCTGCGCCTTTGCGACCTCTGCGCGCCAGAGGCGCTGCCCAAGGCCAGGGGCTCCTGAGCCCCC  
 CAGCGCTCGCGAGCAGGCATCTCTGTGCCAGTGCCTCGCACGGGTATCCTGCAGGAGGCCCGGGCCGG  
 GGGACCCGGAAGCAGATGTTCCGGCCGGGAAAGGAGGAGACGAAGAAGTCCGCCAACCCCGAGTCTAT  
 CGCTGGTACAGAACCTGGATGAAAAGCCTCGGGCCGGGGTGCAGAACTGGTCTGAAGAAGATGCTCT  
 GAGCCTCGGGGCTGAAGCCTGCAACTTCATGCAGCCAGTAGGGGCCAGGAGTTACAAGACCTGCCTCAC  
 GTGACACCTAAGACCCCTCCAATGGCTCCCAAGACCCCGCCCTATGACTCCTAAGACTCCACCC  
 CAGTGGCTCCTAAGCCCCATCTCGAGGGCTCCTTATGGGCTCGTGAATGGGGCAGCCTTTCGGCTGG  
 AATCCCTGAGCCACCAAGGCTGCAGGGCAGGGGTGGGAGCTGTTTGTAAAGCGCAGAGCCGTGGGAG  
 AGGTATGTGGTGAAGGTACACCTGGTCTGGTCTTGGCCCTCGGCTAGAAGTCTTCTCTACCCCGT  
 CTCTGCCCTTCTGGAATATTCACCAACATCCGTGCCCGCCTCCTATTGTTACAACCCACTGCT  
 CTCTCCCTTTTCCCAAGCGGCCCAACTCTCCCTAAGGCCAATCCAGGGGCTCGGGCAACACCC  
 AAGCAGGGCATCAAGGCTCTAGATTTTATGCGGCATCAGCCATCAACTAAAAGTCCATGTTCTGTT  
 TTGATGAGGTTCCCGACTCCTGGCCATCGCCTCAGGGTCCCCAAAAGTCCCGAGTCCAGGAGAT  
 TCGCCGGTTTTCACTCCGGCACCCAGCCACTGCAGAACCCCTGGCTCCACTGTGCTTGGCCCCGA  
 GCAGCCACTACACTGGATGAGCCATCTGGAGAACAAGTGGCCTCAGCCCTGTTCTAGCCAGCCC  
 CTCTCCAGAGGCTCCAGGGGCTTGGGGCTTCTCCAGCTCCTGCGGTTTCCAGGTAGCCAGGCCCGG  
 ATTTTCAGCCACCAGAACAGGATTGCAAGCTCATGTGTGAGGCCTGGGGCAGGGCACCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226285 representing NM\_001114133  
 Red=Cloning site Green=Tags(s)

MGAEEEVLVTLGGAPWGFRLHGGAEQRKPLQVSKIRRRSQAGRGLRERDQLLAINGVSTNL SHASAM  
 SLIDASGNQLVLTVQRLADEGPVQSPSPHELQVLSPLSPLSPEPPGAPVPQPLQPGSLRSPPDSEAYYGE  
 TDSDADGPATQEKPRRRRRRGPTRPTPPGAPPDEVYLSDSPAEAPTIPGPPSQGDSRVSSPSWEDGAL  
 QPPPAEALLLPHGPLRPGPHLIPMVGPVPHVAEDLTTTYTQKAKQAKLQRAESLQEKSIKEAKTKCRTI  
 ASLLTAAPNPHSKGVL MFKRRRQRAKKYTLVSFGAAAGTGAEEDGVPPTSESELDEEAFSDARSLTNQS  
 DWDSPYLDMELARAGSRASEGQGSGLGGQLSEVSGRGVQLFEQQQRADSSTQELARVEPAAMLNGLQ  
 SPPRAQSAPPEAAVLPPSPLPAPVASPRPFQPGGGAPTPAPSI FNRSARPF TPGLQGQRPTTTSVIFRPL  
 APKRANDSLGGLSPAPPFLSSQGPTPLPSFTSGVPSHAPVSGSPSTPRSSGPTATSSLYIPASRPVT  
 PGGAPEPPAPPSAAAAMTSTASIFLSAPLRPSARPEAPAPGGAPEPPSAREQRISVPAARTGILQEARRR  
 GTRKQMFPRGKEETKNSPNPELLSLVQNLDEKPRAGGAESGPEEDALSLGAEACNFMQPVGARSYKTLPH  
 VTPKTPPPMAPKTPPPMTPKTPPPVAPKPPSRGLLDGLVNGAASSAGIPEPPRLQGRGELFAKQSRAD  
 RYVVEGTPGGLGPRRPSPTPSLPPSWKYSNIRAPPPIAYNPLLSPFFPQAARTLPKAQSQGPRATP  
 KQGIKALDFMRHQPYQLKTAMFCFDEVPTPGPIASGSPK TARVQEIRRFSTPAPQPTAEPLAPTLAPR  
 AATTLDEPIWRTELASAPVSPAPPPEAPRGLGASPSGCFQVARPRFSATRTGLQAHVWRPGAGHQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8032\\_h02.zip](https://cdn.origene.com/chromatograms/mk8032_h02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



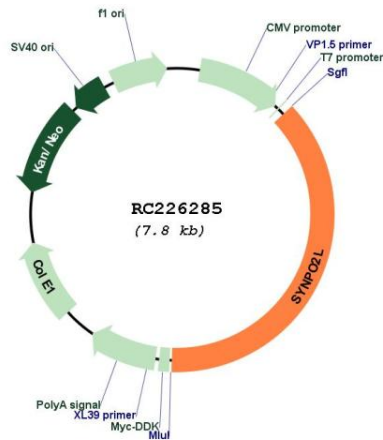
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001114133

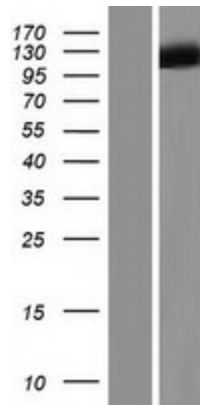
**ORF Size:** 2931 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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>                | <a href="#">NM_001114133.3</a>  |
| <b>RefSeq ORF:</b>            | 2934 bp   |
| <b>Locus ID:</b>              | 79933   |
| <b>UniProt ID:</b>            | <a href="#">Q9H987</a>  |
| <b>Cytogenetics:</b>          | 10q22.2   |
| <b>MW:</b>                    | 102.3 kDa   |
| <b>Gene Summary:</b>          | Actin-associated protein that may play a role in modulating actin-based shape.<br>[UniProtKB/Swiss-Prot Function]   |

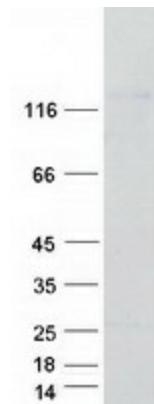
Product images:



Circular map for RC226285



Western blot validation of overexpression lysate (Cat# [LY426461]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226285 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SYNPO2L protein (Cat# [TP326285]). The protein was produced from HEK293T cells transfected with SYNPO2L cDNA clone (Cat# RC226285) using MegaTran 2.0 (Cat# [TT210002]).