

Product datasheet for RC205424

SYNPR (NM_144642) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYNPR (NM_144642) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYNPR
Synonyms:	SPO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205424 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTATGGTGATATTTGCTCCGCTTTTTGCAATCTTTGCATTGCAACATGCGGTGGCTATTCTGGAG
GCCTGCGGCTGAGTGTGGACTGCGTCAACAAGACAGAAAGTAACCTCAGCATCGACATAGCGTTTGCCTA
CCCATTCAAGTTGCACCAGGTGACGTTTGGAGGTGCCACCTGCGAGGGAAAGGAACGGCAGAAGCTGGCA
TTGATTGGTGACTCCTCGTCTTCAGCAGAGTTCTCGTCACTGTTGCTGTCTTCGCCTTCTCTACTCTT
TGGCTGCCACTGTCGTTTACATTTCTTCCAGAACAATACCGGGAAAACAACCGGGGCCACTCATTGA
CTTCATTGTCAGTGTAGTCTTTTTCGTTCTGTGGTTGGTGGGTTTCATCAGCTTGGGCAAAAGGACTGTCT
GACGTCAAAGTTGCAACGGATCCCAAGGAAGTATTGCTACTAATGTCAGCTTCAAACAGCCATCCAACA
AATGCATGGCTATCCACAGCCCTGTTATGTCAAGCTTAAACACTTCTGTGGTCTTTGGATTCTTGAAGT
TATTCTCTGGGCTGGAACATAATGGTTTGTTCAGGAGACCGGCTGGCATTCTTCGGGACAGAGATAT
CTTTCAGATCCAATGGAGAAGCACTCCAGCAGCTATAATCAAGGTGGTTACAACCAAGACAGCTATGGAT
CAAGCAGTGGGTACAGTCAGCAGGCGAGTTTGGGGCAACCTCAGATGAGTTTGGCAACAGCCTACTGG
CCCCACTTCTTTACCAATCAGATT

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205424 protein sequence
Red=Cloning site Green=Tags(s)

MCMVIFAPLFAIFAFATCGGYSGGLRLSVDCVNKTESNLSIDIAFAYPFRLHQVTFVEVPTCEGKERQKLA
 LIGDSSSSAEFFVTAVFAFLYSLAATVVYIFFQNKYRENNRGLIDFIVTVVFSFLWLVGSSAWAKGLS
 DVKVATDPKEVLLLSACKQPSNKCMAIHSPVMSSLNNTSVVFGFLNFILWAGNIWVFKETGWHSSGQRY
 LSDPMEKHSSSYNQGGYNQDSYGSSSGYSQQASLGPTSDEFGQQPTGPTSFTNQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6026_d12.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_144642

ORF Size: 795 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_144642.5](#)

RefSeq Size: 2632 bp

RefSeq ORF: 798 bp

Locus ID: 132204

UniProt ID: [Q8TBG9](#)

Cytogenetics: 3p14.2

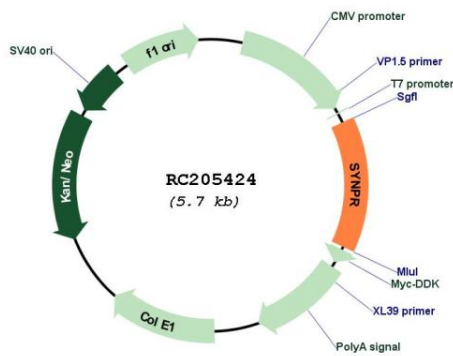
Domains: MARVEL

Protein Families: Secreted Protein, Transmembrane

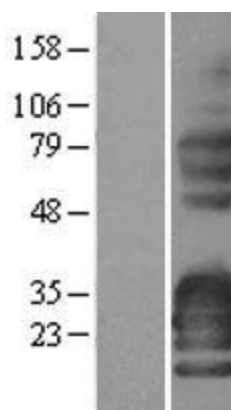
MW: 29.2 kDa

Gene Summary: Intrinsic membrane protein of small synaptic vesicles. Probable vesicular channel protein (By similarity).[UniProtKB/Swiss-Prot Function]

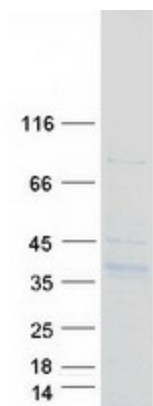
Product images:



Circular map for RC205424



Western blot validation of overexpression lysate (Cat# [LY403401]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205424 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SYNPR protein (Cat# [TP305424]). The protein was produced from HEK293T cells transfected with SYNPR cDNA clone (Cat# RC205424) using MegaTran 2.0 (Cat# [TT210002]).