

Product datasheet for **RC207749**

SNPH (NM_014723) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SNPH (NM_014723) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SNPH |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC207749 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCATGTCCCTGCCAGGAAGTAGACGGACCTCTGCTGGATCACGCAGGCGCACCTCTCCACCTGTGA
 GCGTGCGGGATGCCTACGGCACCTCTTCGCTCAGCAGCAGCAGCAATTCTGGCTCTACAAGGGCAGTGA
 CAGCAGTCCCACGCCAAGGCGCTCCATGAAATACACGCTGTGCAGTGACAACCATGGCATCAAGCCCCCG
 ACCCCGGAGCAGTACCTGACCCCTGCAGCAGAAGGAGGTGTGCATCCGGCACCTGAAAGCCCGGCTGA
 AGGACACACAGGACCGGCTCCAGGACCGGGACACAGAGATTGATGACCTGAAGACGCAGCTGTACGCAT
 GCAGGAGGACTGGATTGAGGAGGAGTGCCACCGCTGGAGGCCAGCTGGCCCTGAAGGAGGCCGAAAG
 GAGATCAAGCAGCTCAAGCAGGTATCGACTGTCAAGAACAACCTGATTGACAAGGACAAGGGGCTGC
 AGAAGTACTTCGTGGACATCAACATCCAGAACAAGAAGCTGGAGACGCTGCTGCACAGCATGGAGGTGGC
 CCAGAATGGCATGGCCAAGGAGGATGGCACTGGGGAGTCAGCCGGTGGGTCCTGCCCGCTCCCTCACC
 CGCAGCTCCACCTACACCAAGCTGAGTGACCCGGCTGTCTGTGGTGACCCGACCGGGTATCCCTCCA
 GCGGCTCTGCTGAGGATGGGGCAGACAGTGGCTTTGCAGCAGCCGATGACACACTGAGCCGGACGGACGC
 GCTGGAAGCCAGCAGCCTGCTGTCTCGGGGTGGACTGTGGCACCGAGGAGACCTCGTGCACAGCTCC
 TTCGGCTGGGCCCGCTTCCCTGCCAGCAACACCTATGAGAAGCTGCTGTGTGGCATGGAGGCTGGTG
 TGCAGGCCAGTGCATGCAGGAGCGTCCATCCAGACAGACTTCGTGCAGTACCAGCCTGACCTTGACAC
 CATCCTGGAGAAAGTGACCCAGGCCAGGTCTGTGGGACAGCCCTGAGTCAGGGGACAGGTGCCAGAG
 CTGGATGCCACCCTTCAGGGCCAGAGACCCCAACTCAGCAGTGGTGGTGCAGTGGGTGATGAGCTAG
 AGGCCCCAGAGCCATCACCCGTGGACCCACCCACAGCGGCTGGTGCCAAACCCCAACCTGGCCAGT
 GGTGAGCGTGGTGTGCCCATGGAAGAGGAGGAGGAGGCTGCCGTGGCTGAGAAGGAGCCCAAGAGCTAC
 TGGAGCCGCCACTACATCGTGGATCTGCTGGTGTGGTGGTGGCCGCGTGGCCACGGTGCCTGGCTTT
 GCCGCTCCAGCGGCGCCAGGGCCAGCCATCTACAACATCAGCTCCCTGCTGCGGGGCTGCTGCACTGT
 GGCCTTGCACTCCATCCGCAGGATCAGCTGCCGCTCGCTGAGCCAGCCGAGTCCAGCCAGCGGGCGGC
 GGCTCCAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207749 protein sequence
 Red=Cloning site Green=Tags(s)

MAMSLPGSRRTSAGSRRTSPPVSVRDAYGTSSLSSSSNSGSYKGS DSSPTPRRSMKYTLCSDNHGIKPP
 TPEQYL TPLQQKEVCIRHLKARLKDTQDRLQDRDTEIDDLKTQLSRMQEDWIEEECHRVEAQLALKEARK
 EIKQLKQVIDTVKNNLIDKDKGLQKYFVDINIQNKKLELLHSMEVAQNGMAKEDGTGESAGGSPARSLT
 RSSTYTKLSDPAVCGDRQPGDPSSGSAEDGADSGFAAADDTLSRTDALEASSLLSSGVDCGTEETSLHSS
 FGLGPRFPASNTYEKLLCGMEAGVQASCMQERAIQTDFVYQPDLDITILEKVTQAQVCGTDPESGDRCP
 LDAHPSGPRDPNSAVVVTVGDELEAPEPI TRGPTPQRPGANPNPQSVSVVCPMEEEEEAAVAEKEPKSY
 WSRHYIVDLLAVVPAVPTVAWLCRSQRQGP IYNISSLLRGCTVALHSIRRI SCRSLSQSPSPAGG
 GSQL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6338_d05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014723

ORF Size: 1482 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014723.4](#)

RefSeq Size: 5026 bp

RefSeq ORF: 1485 bp

Locus ID: 9751

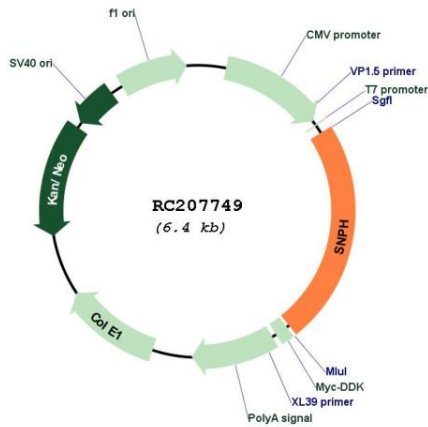
UniProt ID: [O15079](#)

Cytogenetics: 20p13

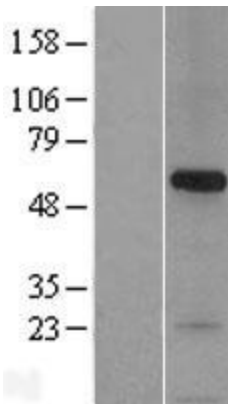
MW: 53.5 kDa

Gene Summary: Syntaxin-1, synaptobrevin/VAMP, and SNAP25 interact to form the SNARE complex, which is required for synaptic vesicle docking and fusion. The protein encoded by this gene is membrane-associated and inhibits SNARE complex formation by binding free syntaxin-1. Expression of this gene appears to be brain-specific. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

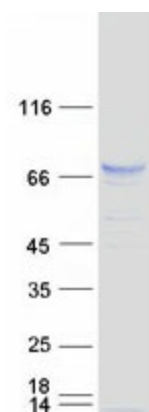
Product images:



Circular map for RC207749



Western blot validation of overexpression lysate (Cat# [LY415096]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207749 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNPH protein (Cat# [TP307749]). The protein was produced from HEK293T cells transfected with SNPH cDNA clone (Cat# RC207749) using MegaTran 2.0 (Cat# [TT210002]).