

Product datasheet for **RC234061**

Synaptotagmin VI (SYT6) (NM_001270805) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin VI (SYT6) (NM_001270805) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Synaptotagmin VI
Synonyms:	sytVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC234061 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTGGAGGAACAAGGAGGCCTCCAGTCCCTCTTCTGCTAATCCCCCTTGAAGCCCTCCAGAGCC
 CCAGCTTCAGAGGCAACATGGCGGACAAGCTGAAGGACCCAGCACCCCTGGGCTTCTGGAGGCGGCCGT
 GAAGATCAGCCACACGTCCCCAGATATCCAGCTGAGGTGCAGATGTCGGTCAAGGAGCACATCATGCGT
 CACACCCGGCTGCAGCGGAACTACAGAGCCAGCGTCATCCACCAGGCACACGTCCTTCAAGCGCCACC
 TGCCAAGGCAGATGCATGTCTCCAGTGTAGACTATGGCAATGAGCTTCCACCAGCAGCAGAGCAGCCAC
 CAGCATTGGCCGCATCAAGCCTGAGCTCTACAAGCAGAAGTCGGTGGATGGGAGGATGCCAAGTCTGAG
 GCCACCAAGAGCTGCGGGAAGATCAACTCAGCCTACGCTACGATTACGAGACCGAGACCCTGATTGTGC
 GTATCCTGAAGGCTTTTACCTCCCTGCCAAGGACTTTTGTGGAAGCTCTGACCCCTATGTCAAGATCTA
 CCTCCTGCCTGACCGAAATGCAAGCTGCAGACCCGGGTGCACCGCAAGACCCTGAACCCACCTTTGAT
 GAGAACTCCACTTCCCTGTGCCCTATGAGGAGCTGGCTGACCGCAAGCTGCATCTCAGTGTCTTCGACT
 TTGACCGCTTCTCCCGCCATGACATGATTGGCGAGGTCATCCTGGACAACCTCTTTGAGGCTCTGACCT
 GTCTCGGAAACCTCCATCTGGAAGGATATCCAATATGCCACAAGTAAAAGCGTGGACTTGGGAGAGATC
 ATGTTCTCCCTTTGCTACCTGCCACTGCAGGCAGGCTCACCTCACAGTGATTAAGTGTGCGAACCTCA
 AGGCGATGGACATCACAGGCTATTCAGATCCCTATGTGAAAGTGTCTTGTCTGTGATGGGCGGAGGCT
 GAAGAAGAAGAAAACAACCATAAAGAAAAACACTCTCAATCCTGTCTACAATGAGGCCATCATCTTTGAC
 ATCCCCCGGAAAACATGGATCAAGTCAGCCTGCTCATCTCAGTCATGGACTATGATCGAGTGGCCACA
 ATGAGATCATAGGAGTCTGTCGTGTGGGATCACTGCTGAAGCCCTGGCAGGGACCCTGGAACGAGAT
 GCTGGCATACCCCGGAAGCCCATCGCACACTGGCACTCCTTGGTGGAGGTAAGAAATCCTTCAAGAG
 GAAACCTCGGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234061 protein sequence
 Red=Cloning site Green=Tags(s)

MPWRNKEASSPSSANPPLEALQSPSFRGNMADKLDKDPSTLGFLEAAVKISHTSPDIPAQVMSVKEHIMR
 HTRLQRQTTEPASSTRHTSFKRHLPRQMHVSSVDYGNELPPAAEQPTSIGRIKPELYKQKSVGDGAKSE
 ATKSCGKINFLRYDYETETLIVRILKAFDLPKDFCGSSDPYVKIYLLPDRKCKLQTRVHRKTLNPTFD
 ENFHFPVPEELADRKLHLVDFDFRFSRHMIGEVILDNLFEASDLRETSIWKDIQYATSEVDLGEI
 MFSLCYLPTAGRLTLTVIKCRNLKAMDITGYSDPYVKVSLLCDGRRLKKKTTIKNTLNPNVYNEAIFD
 IPPENMDQVSLLSVMDYDRVGHNEIIGVCRVGI TA EGLGRDHWNEMLAYPRKPIAHWHSLVEVKKSFKE
 GNPRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6509_h12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001270805

ORF Size: 1275 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_001270805.1](#), [NP_001257734.1](#)

RefSeq Size: 4375 bp

RefSeq ORF: 1278 bp

Locus ID: 148281

UniProt ID: [Q5T7P8](#)

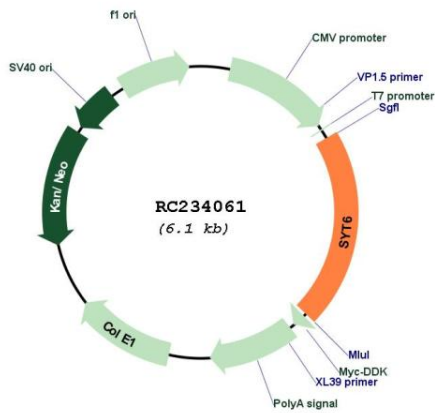
Cytogenetics: 1p13.2

Protein Families: Secreted Protein, Transmembrane

MW: 48.4 kDa

Gene Summary: The protein encoded by this gene belongs to the synaptotagmin family. Synaptotagmins share a common domain structure that includes a transmembrane domain and a cytoplasmic region composed of 2 C2 domains, and are involved in calcium-dependent exocytosis of synaptic vesicles. This protein has been shown to be a key component of the secretory machinery involved in acrosomal exocytosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC234061