

Product datasheet for **RC208146**

Synaptotagmin VI (SYT6) (NM_205848) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin VI (SYT6) (NM_205848) 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)



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ORF Nucleotide Sequence:

>RC208146 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTGGAGGAACAAGGAGGCTCCAGTCCCTCTTCTGCTAATCCCCCTTGAAGCCCTCCAGAGCC
 CCAGCTTCAGAGGCAACATGGCGGACAAGCTGAAGGACCCAGCACCCCTGGGCTTCCTGGAGGCGGCCGT
 GAAGATCAGCCACACGTCCTCCAGATATCCAGCTGAGGTGCAGATGTCGGTCAAGGAGCACATCATGCGT
 CACACCCGGCTGCAGCGGCAAACTACAGAGCCAGCGTCATCCACCAGGCACACGTCCTTCAAGCGCCACC
 TGCCAAGGCAGATGCATGTCTCCAGTGTAGACTATGGCAATGAGCTTCCACCAGCAGCAGAGCAGCCAC
 CAGCATTGGCCGCATCAAGCCTGAGCTCTACAAGCAGAAGTCGGTGGATGGGAGGATGCCAAGTCTGAG
 GCCACCAAGAGCTGCGGGAAGATCAACTTCAGCCTACGCTACGATTACGAGACCGAGACCCTGATTGTGC
 GTATCCTGAAGGCTTTTGACCTCCCTGCCAAGGACTTTTGTGGAAGCTCTGACCCCTATGTCAAGATCTA
 CCTCTGCCTGACCGCAAATGCAAGCTGCAGACCCGGGTGCACCGCAAGACCCTGAACCCACCTTTGAT
 GAGAACTTCCACTTCCCTGTGCCCTATGAGGAGCTGGCTGACCGCAAGCTGCATCTCAGTGTCTTGGACT
 TTGACCGCTTCTCCCGCATGACATGATTGGCGAGGTATCCTGGACAACCTCTTTGAGGCTCTGACCT
 GTCTCGGGAACCTCCATCTGGAAGGATATCCAATATGCCACAAGTAAAAGCGTGGACTTTGGGAGAGATC
 ATGTTCTCCCTTTGCTACCTGCCCACTGCAGGCAGGCTCACCTCACAGTGATTAAGTGTGGAACCTCA
 AGGCGATGGACATCACAGGCTATTCAGATCCCTATGTGAAAGTGTCTTGCTCTGTGATGGGCGGAGGCT
 GAAGAAGAAGAAAACAACCATAAAGAAAAACACTCTCAATCCTGTCTACAATGAGGCCATCATCTTTGAC
 ATCCCCCGGAAAACATGGATCAAGTCAGCCTGCTCATCTCAGTCATGGACTATGATCGAGTGGGCCACA
 ATGAGATCATAGGAGTCTGTCTGTGGGATCACTGCTGAAGGCTGGGCAGGACCACTGGAACGAGAT
 GCTGGCATACCCCGGAAGCCCATCGCACACTGGCACTCCTTGGTGGAGGTAAAGAAATCCTTCAAGAG
 GGAAACCCTCGGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208146 protein sequence
 Red=Cloning site Green=Tags(s)

MPWRNKEASSPSSANPPLEALQSPSFRGNMADKLKDPSTLGFLEAAVKISHTSPDIPAEVQMSVKEHIMR
 HTRLQRQTTEPASSTRHTSFKRHLPRQMHVSSVDYGNELPPAAEQPTSIGRIKPELYKQKSVDGEDAKSE
 ATKSCGKINFLRYDYETETLIVRILKAFDLPKDFCGSSDPYVKIYLLPDRKCKLQTRVHRKTLNPTFD
 ENFHFPVPYEEADRLHLVDFDFRFSRHDMEVILDNLEASDLRETSIWKDIQYATSEVDLGEI
 MFSLCYLPTAGRLTLTVIKCRNLKAMDITGYSDPYVKVSLCDGRRLKKKTTIKKNTLNPVYNEAIFD
 IPPENMDQVSLLSVMDYDRVGHNEIIGVCRVGITAEGLRDHWNEMLAYPRKPIAHWHSLVEVKKSFE
 GNPRL

TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

Chromatograms:

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

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM 205848

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.

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

RefSeq: NM_205848.3

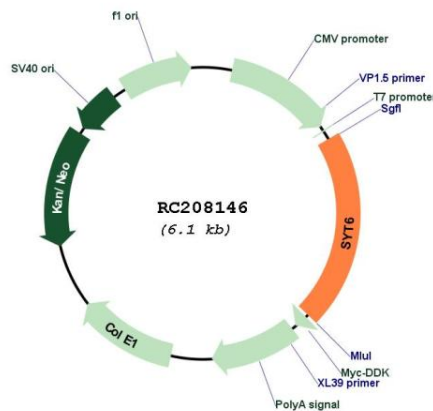
RefSeq Size: 4357 bp

RefSeq ORF: 1278 bp

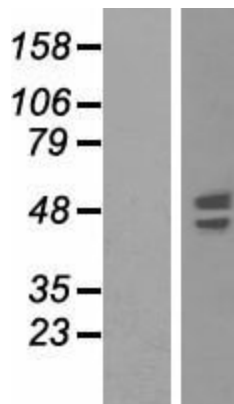
Locus ID: 148281

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]

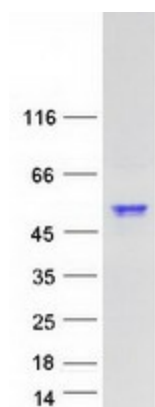
Product images:



Circular map for RC208146



Western blot validation of overexpression lysate (Cat# [LY404198]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208146 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SYT6 protein (Cat# [TP308146]). The protein was produced from HEK293T cells transfected with SYT6 cDNA clone (Cat# RC208146) using MegaTran 2.0 (Cat# [TT210002]).