

Product datasheet for **RG208146**

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:	TurboGFP
Symbol:	Synaptotagmin VI
Synonyms:	sytVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208146 representing NM_205848 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGGAGGAACAAGGAGGCCTCCAGTCCCTCTTCTGCTAATCCCCCTTGAAGCCCTCCAGAGCC
CCAGCTTCAGAGGCAACATGGCGGACAAGCTGAAGGACCCAGCACCCCTGGGCTTCTGGAGGCGGCCGT
GAAGATCAGCCACACGTCCCCAGATATCCAGCTGAGGTGCAGATGTCGGTCAAGGAGCACATCATGCGT
CACACCCGGCTGCAGCGCAAACACAGAGCCAGCGTCATCCACCAGGCACACGTCCTTCAAGCGCCACC
TGCCAAGGCAGATGCATGTCCTCAGTGTAGACTATGGCAATGAGCTTCCACCAGCAGCAGAGCAGCCAC
CAGCATTGGCCGATCAAGCCTGAGCTCTACAAGCAGAAGTCGGTGGATGGGGAGGATGCCAAGTCTGAG
GCCACCAAGAGCTGCGGGAAGATCAACTTCAGCCTACGCTACGATTACGAGACCGAGACCCTGATTGTGC
GTATCCTGAAGGCTTTTGACCTCCCTGCCAAGGACTTTTGTGGAAGCTCTGACCCCTATGTCAAGATCTA
CCTCCTGCCTGACCGCAAATGCAAGCTGCAGACCCGGGTGCACCGAAGACCCTGAACCCACCTTTGAT
GAGAACTCCACTTCCCTGTGCCATGACATGATTGGCGAGGTCATCCTGGACAACCTCTTTGAGGCTCTGACCT
GTCTCGGAAACCTCCATCTGGAAGGATATCCAATATGCCACAAGTAAAAGCGTGGACTTGGGAGAGATC
ATGTTCTCCCTTTGCTACCTGCCACTGCAGGCAGGCTCACCTCACAGTGATTAAGTGTGCGGAACCTCA
AGGCGATGGACATCACAGGCTATTCAGATCCCTATGTGAAAGTGCCTTGCTCTGTGATGGGCGGAGGCT
GAAGAAGAAGAAAACAACCATAAAGAAAAACACTCTCAATCCTGTCTACAATGAGGCCATCATCTTTGAC
ATCCCCCGAAAACATGGATCAAGTCAGCCTGCTCATCTCAGTCATGGACTATGATCGAGTGGGCCACA
ATGAGATCATAGGAGTCTGTCGTGTGGGATCACTGCTGAAGGCCTGGCAGGGACCCTGGAACGAGAT
GCTGGCATAACCCCGGAAGCCATCGCACACTGGCACTCCTTGGTGGAGGTAAGAAATCCTTCAAAGAG
GGAACCCCTCGGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208146 representing NM_205848
Red=Cloning site Green=Tags(s)

MPWRNKEASSPSSANPPLEALQSPSFRGNMADKLDKDPSTLGFLEAAVKISHTSPDIPAEVQMSVKEHIMR
 HTRLQRQTTEPASSTRHTSFKRHLPRQMHVSSVDYGNELPPAAEQPTSIGRIKPELYKQKSVGDGAKSE
 ATKSCGKINFLRYDYETETLIVRILKAFDLPKDFCGSSDPYVKIYLLPDRKCKLQTRVHRKTLNPTFD
 ENFHFPVPEELADRLHLVDFDFRFSRHDMI GEVILDNLFEASDL SRETSIWKDIQYATSEVDLGEI
 MFSLCYLPTAGRLTLTVIKCRNLKAMDITGYSDPYVKVSLLCDGRRLK KKKTTIKKNTLNPVYNEAIFD
 IPPENMDQVSLLSVMDYDRVGHNEIIGVCRVGITAEGLGRDHWNEMLAYPRKPIAHWHSLEVKKSFKE
 GNPRL

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_205848.3](#)

RefSeq Size: 4370 bp

RefSeq ORF: 1278 bp

Locus ID: 148281

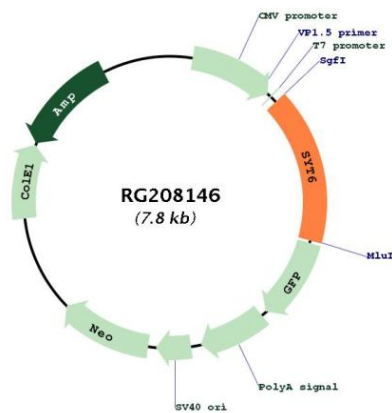
UniProt ID: [Q5T7P8](#)

Cytogenetics: 1p13.2

Protein Families: Secreted Protein, Transmembrane

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 RG208146