

Product datasheet for **RC237868**

Synaptotagmin V (SYT5) (NM_001297774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin V (SYT5) (NM_001297774) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYT5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237868 representing NM_001297774 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACTCGCGGTGGCTGTCCGGTTTCTGCGCGGCTGTTTCGCGCAAAGGCCTCATGGGAGTTGGAGTTCTT
TGTTGTGCGTGGGGCTCAAAGGACGTCTGGGGTGGGAATGGGGGACTAGGGTGCTTGAGTGTCTCTGCAG
AAAAGACTCCAGGACCCCGCCACCATGTTCCCGGAGCCCAACCCGGGGCCTCCATCGCCCGACACGC
CTCCCGACTCCAGTCGCATCAGCCACGGCCAGGTGCAGCCAGAAGTAGAGGAGCTGGAGCCAGCACCAT
CCGGGCCAGGGCAGCAGGTGGCAGACAAGCATGAGCTAGGACGACTGCAGTACTCCCTGGATTATGACTT
CCAGAGTGGCCAGCTGCTGGTGGCATTCTGCAAGCAATGGGATTGGCAGCCTTGATCTTGGTGGCTCC
TCGGACCCTATGTGCGGGTCTACCTGCTGCCGACAAACGGAGGCGGTACGAGACCAAGGTGCATCGGC
AGACGCTGAACCCTCACTTTGGGAGACCTTCGCCTTCAAGGTCCCCTACGTGGAGCTGGGGGCGAGGT
GCTGGTCATGGCGGTGTACGACTTCGACCCTTCTCTCGCAATGACGCCATCGGGGAGGTGCGGGTCCCT
ATGAGCTCCGTGGACCTGGGGCGCCAGTGCAGGCCTGGCGGGAGCTGCAGGCGGCTCCGCGGGAGGAGG
AGAAGCTTGGGGACATCTGCTTCTCCCTCCGCTATGTCCCACGGCCGGGAAGCTCACCGTCATCGTCCT
GGAGGCTAAAAACCTGAAGAAGATGGACGTAGGAGGACTGTGAGTCCATACGTCAAGGTCCACCTGCTG
CAGGGCGGCAAAAAGGTGCGGAAGAAGAAAACCACCATCAAGAAGAACAACCTCTGAACCCCTATTACAACG
AAGCTTTCAGCTTCGAGGTGCCCTGTGACCAAGTCCAGAAGGTGCAGGTGGAGCTGACCGTGTGGACTA
CGACAAGCTGGGCAAGAACGAGGCCATCGGGAGGGTGGCCGTGGGGGCGGCCCGCGGGGCTGGCCTG
CGGCACTGGGCGGACATGCTGGCCAACCCGCGCGGCCATTGCCAGTGGCACTCGTCCGCCCCCGG
ACCGAGTGAGGCTGCTGCCTGCGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237868 representing NM_001297774
Red=Cloning site Green=Tags(s)

MTRGGCPVSARLFAQRPHGSWSSLLCVGLKGRLGWEWGTRVLECLCRKDSRTPPPCSRSPQPRGLHRPTR
 LPTPVASATAQVQPEVEELEPAPSGPGQVADKHELGRQLQYSLDYDFQSGQLLVGILQAMGLAALDLGGS
 SDPYVRYVYLLPDKRRRYETKVRHQTLNPHFGETFAFKVPYVELGGRVLMAYVDFDRFSRNDIAGEVRVP
 MSSVDLGRPVQAWRELQAAPREEEKLGDICFSLRYVPTAGKLTVIIVLEAKNLKKMDVGGGLSDPYVKVHLL
 QGGKKVRKKKTTIKNLTLPYYNEAFSFEVPCDQVQVQVELTVLDYDKLGKNEATGRVAVGAAAGGAGL
 RHWADMLANPRRPIAQWHSRPPDRVRLLPAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

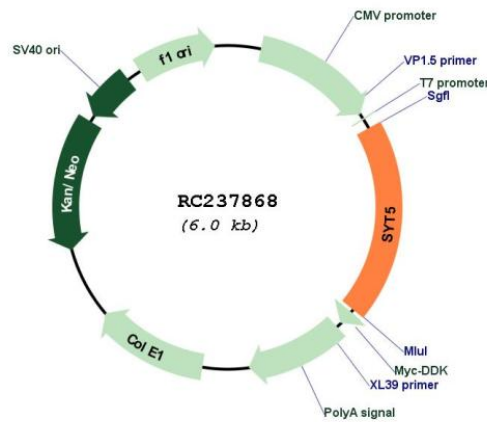
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001297774

ORF Size:	1146 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:	<ol style="list-style-type: none">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_001297774.2
RefSeq Size:	1797 bp
RefSeq ORF:	1149 bp
Locus ID:	6861
UniProt ID:	O00445
Cytogenetics:	11p
Protein Families:	Secreted Protein, Transmembrane
MW:	42.9 kDa
Gene Summary:	Synaptotagmins, such as SYT5, are a family of type III membrane proteins characterized by cytoplasmic repeats related to protein kinase C (see MIM 176960) regulatory (C2) domains, which are thought to bind calcium. Synaptotagmins may act both as negative regulators of vesicle fusion, allowing fusion in the presence of calcium, and as calcium receptors or sensor molecules (summary by Hudson and Birnbaum, 1995 [PubMed 7597049]).[supplied by OMIM, Feb 2011]