

Product datasheet for **SC335762**

Synaptotagmin V (SYT5) (NM_001297774) Human Untagged Clone

Product data:

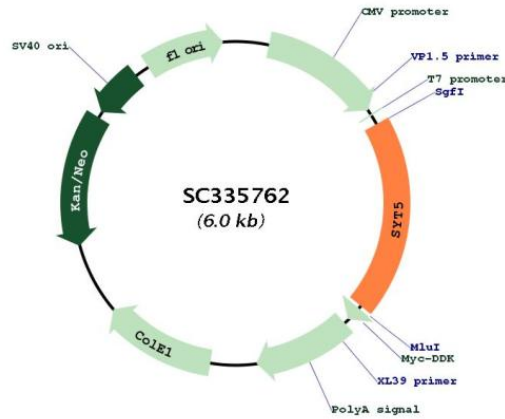
Product Type:	Expression Plasmids
Product Name:	Synaptotagmin V (SYT5) (NM_001297774) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335762 representing NM_001297774. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTCGCGGTGGCTGTCCGGTTTCTGCGCGGCTGTTGCGCGCAAAGGCCTCATGGGAGTTGGAGTTCT
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AGAAAAGACTCCAGGACCCGCCACCATGTTCCCGGAGCCCCAACCCCGGGGCTCCATCGCCGACA
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CCATCCGGGCCAGGGCAGCAGGTGGCAGACAAGCATGAGCTAGGACGACTGCAGTACTCCCTGGATTAT
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CGGGAGGAGGAGAAGCTTGGGGACATCTGCTTCTCCCTCCGCTATGTCCCACGGCCGGGAAGCTCACC
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TCGCTGCGGCCCCCGGACCGAGTGAGGCTGCTGCCTGCGCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001297774

Insert Size: 1149 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001297774.1](#)

RefSeq Size: 1797 bp

RefSeq ORF: 1149 bp

Locus ID: 6861

UniProt ID: [O00445](#)

Cytogenetics: 11p

Protein Families: Secreted Protein, Transmembrane

MW: 42.5 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]

Transcript Variant: This variant (2) differs in the 5' UTR and contains multiple coding region differences, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct N-terminus, compared to isoform 1.