

Product datasheet for **RC238288**

Synaptotagmin VII (SYT7) (NM_001300773) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin VII (SYT7) (NM_001300773) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Synaptotagmin VII
Synonyms:	IPCA-7; IPCA7; PCANAP7; SYT-VII; SYTVII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238288 representing NM_001300773
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTACCGGGACCCGGAGCGGCCAGCCAGGGCGCCCTCGCGGACGTCTGTCTCTGCCATCA
 TCACCGTCAGCCTTAGCGTCACTGTCGTCTCTCGCGCCTCTGCCACTGGTGTGTCAGCGCAAACCTGGGCAA
 ACGCTACAAGAATTCCTTGGAGACGGTGGGCACGCCAGACTCAGGGCGTGGGCGCAGTGAGAAGAAGGCT
 ATCAATGATCTAGACAGAGACTTTTGAATAACAATGAGAGCACAGTGCAGCAGAAATGGAGCTCCTACC
 CTCCCAAGGAGTTTATTCTAAACATTTACCCCTACGCCCTTATGGCGACCCACGACTGTCCCTCAAGTT
 GCCTGCAGGAGGAAGCGGTGAACACAGCCCCCGTCCAGGCCAGACACCCACGATGAGTCCGACCGC
 CGGACCGACCCACGTTCTCCGTCTCAGACCTCGTCAACTCCCTACCAGCGAGATGCTCATGCTCTCCC
 CAGGCTCCGAGGAGGATGAGGCCACGAGGTTGCAGCCGAGAGAACCTGGGCCGGATCCAGTTCAGTGT
 CGGCTACAACCTCCAGGAGTCCACGCTCACCGTGAAGATCATGAAGGCCAGGAGCTGCCGCCAAGGAC
 TTCAGCGGCACCGACCCCTTCGTCAAGATCTACCTGCTGCCGACAAGAAGCACAAGCTGGAGACCA
 AGGTGAAGCGGAAGAACCTGAACCCCACTGGAACGAGACCTTCCTCTTTGAAGTTTTCCCTATAGAA
 GGTGGTGCAGAGGATCCTTACCTCAAGTCTGGACTATGACCGCTTACGCCGAACGACCCCATTTGGG
 GAGGTGTCCATCCCCCTTAAAGGTGGACCTGACCCAGATGCAGACCTTCTGGAAGGATCTGAAGCCAT
 GCAGCGATGGGAGTGGGAGCCGAGGGGAGCTGCTTGTCTCTGCTACAACCCCTCTGCCAATCCAT
 CATCGTGAACATCATCAAAGCCCGAACCTCAAAGCCATGGACATCGGGGCACATCAGACCCCTACGTG
 AAGGTATGGCTGATGTACAAGACAAGCGGTGGAGAAGAAGAAGACGGTACGATGAAGAGGAACCTGA
 ACCCCATCTTCAATGAGTCTTCCGCTTCGATATCCCCAGGAGAAGCTGAGGGAGACGACCATCATCAT
 CACTGTGATGGACAAGGACAAGCTCAGCCGCAATGACGTGATCGGCAAGATCTACCTGTCCCTGGAAGAGC
 GGGCCAGGGGAGGTGAAGCACTGGAAGGACATGATTGCCCGTCCCGGCAGCCCGTGGCCAGTGGCACC
 AGCTGAAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238288 representing NM_001300773
 Red=Cloning site Green=Tags(s)

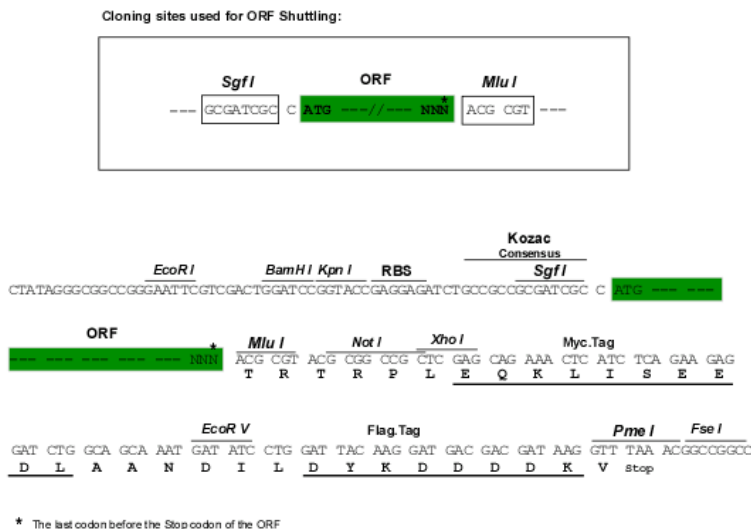
MYRDPEAASPGAPSRDVLVSAIITVSLSVTVVLCGLCHWCQRKLGKRYKNSLETVGTDPDSGRGRSEKKA
 INDLDRDFWNNNESTVQQKWSSYPPEFILNISPYPYGDPRLSLKLPAAGKAVNTAPVPGQTPHDESDR
 RTEPRSSVSDLVNSLTSEMLMLSPGSEEDAHEGCSRENLGRIQF SVGYNFQESTLTVKIMKAQELPAKD
 FSGTSDPFVKIYLLPDKKHKLETKVKRKNLNPHWNETFLFEGFPYEKVVQRILYLQVLDYDRF SRNDPIG
 EVSIPLNKVDLTQMOTFWKDLKPCSDGSGSRGELLLSLCYNPSANSIIVNIIKARNLKAMDIGGTSDPYV
 KVWLMYKDKRVEKKKTVMKRNLPFNESFAFDIPTEKLRETTIIITVMDKDKLSRNDVIGKIYLSWKS
 GPGEVKHWKDMIARPRQPVAQWHQLKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001300773

ORF Size: 1341 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_001300773.1](#), [NP_001287702.1](#)

RefSeq Size: 6320 bp

RefSeq ORF: 1344 bp

Locus ID: 9066

UniProt ID: [O43581](#)

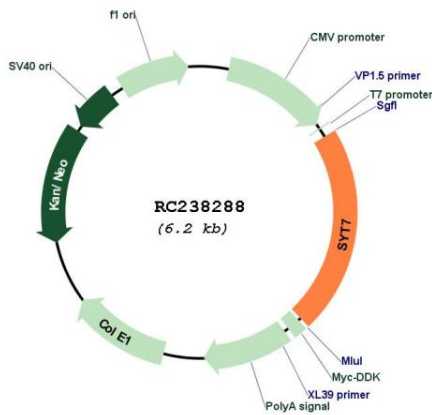
Cytogenetics: 11q12.2

Protein Families: Secreted Protein, Transmembrane

MW: 51.2 kDa

Gene Summary: This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that mediate calcium-dependent regulation of membrane trafficking in synaptic transmission. A similar protein in rodents mediates hormone secretion and lysosome exocytosis. In humans, expression of this gene has been associated with prostate cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC238288