

Product datasheet for **RG234219**

Synaptotagmin VII (SYT7) (NM_001252065) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin VII (SYT7) (NM_001252065) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Synaptotagmin VII
Synonyms:	IPCA-7; IPCA7; PCANAP7; SYT-VII; SYTVII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234219 representing NM_001252065
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTACCGGGACCCGAGGCGGCCAGCCAGGGCGCCCTCGCGCAGCTCCTGCTGGTCTCTGCCATCA
 TACCGTCAGCCTTAGCGTCACTGTCGTCTCGCGCCTCTGCCACTGGTGTACAGCGCAAAGTGGGCAA
 ACGCTACAAGAATTCCTTGGAGACGGTGGGCACGCCAGACTCAGGGCGTGGGCGCAGTGAGAAGAAGGCT
 ATCAATGGCACCTCCTGTCGGGCGCCAAAGTGGCCGCCGCGCGGGGCTGGCGGTGGAGCGGGAAGGCC
 GGCTGGGGGAGAAGCCGGCACCGGTGCCGCCACCCGGAGAGGACGCTTGAGAAGCGCGGGGCTGCCCC
 CAGCGAGCCGGGAGCGGTGGCAAGGCGGGGAGAGGCCGCTGGCGGACGGTGCAGAGCCACCTGGCCGCA
 GGAAGCTCAACTTGCCAAGTTGCCTGCAGGAGGGAAGCGGTGAACACAGCCCCCGTCCAGGCCAGA
 CACCCACGATGAGTCCGACCGCCGACCGAGCCAGTTCTCCTCGTCTCAGACCTCGTCACTCCCTCAC
 CAGCGAGATGCTCATGCTCTCCCGAGGCTCCGAGGAGGATGAGGCCACGAGGTTGCAGCCGAGAGAAC
 CTGGGCGCGATCCAGTTCAGTGTGCGCTACAACCTCCAGGAGTCCACGCTCACCGTGAAGATCATGAAGG
 CCCAGGAGCTGCCGGCCAGGACTTCAGCGGCACACGACCCCTTCGTCAAGATCTACCTGCTGCCCGA
 CAAGAAGCACAAGCTGGAGACCAAGGTGAAGCGGAAGAACCTGAACCCCACTGGAACGAGACCTTCCTC
 TTTGAAGTTCCTTATGAGAAGGTGGTGCAGAGGATCCTCTACCTCCAAGTCTGGACTATGACCGCT
 TCAGCCGCAACGACCCATTGGGGAGGTGTCCATCCCCCTTAACAAGGTGGACCTGACCCAGATGCAGAC
 CTTCTGGAAGGATCTGAAGCCATGCAGCGATGGGAGTGGGAGCCGAGGGGAGTGCTCTTGCTCTCTGC
 TACAACCCCTCTGCCAACTCCATCATCGTGAACATCATCAAAGCCCGAACCTCAAAGCCATGGACATCG
 GGGGCACATCAGACCCCTACGTGAAGGTATGGCTGATGTACAAGGACAAGCGGGTGGAGAAGAAGAAC
 GGTGACGATGAAGAGGAACCTGAACCCCATCTTCAATGAGTCTTCGCTTCGATATCCACGAGAGAAG
 CTGAGGGAGACGACCATCATCATCACTGTGATGACAAGGACAAGCTCAGCCGCAATGACGTCATCGGCA
 AGATCTACCTGTCTGGAAGAGCGGGCCAGGGGAGGTGAAGCACTGGAAGGACATGATTGCCCGTCCCCG
 GCAGCCCGTGGCCAGTGGCACCAGCTGAAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234219 representing NM_001252065
 Red=Cloning site Green=Tags(s)

MYRDPEAASPGAPSRDVLVSAITVSLSVTVVLCGLCHWCQRKLGKRYKNSLETVGTPDSGRGRSEKKA
 INGTLISGAKVAAAAGLAVEREGRLEKPAVPVPPGEDALRSGGAAPSEPGSGGKAGRGRWRTVQSHLAA
 GKLNLKLPAGGKAVNTAPVPGQTPHDESDRREPRSSVSDLVNSLTSEMLMLSPGSEDEAHEGCSREN
 LGRIQFSVGYNFQESTLTVKIMKAQELPAKDFSGTSDPFVKIYLLPDKKHLETKVKKRNLNPHWNETFL
 FEGFPYEKVVQRILYLQVLDYDRFSRNDPIGEVSIPLNKVDLTQMOTFWKDLKPCSDGSGSRGELLSLC
 YNPSANSIIVNIIKARNLKAMDIGGTSDPYVKVWLMYKDKRVEKKKTVTMKRNLNPIFNESFAFDIPTEK
 LRETTIIITVMDKDKLSRNDVIGKIYLSWKS GPGVEKHWKDMIARPRQPVAQWHQLKA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001252065

ORF Size: 1434 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_001252065.1](#), [NP_001238994.1](#)

RefSeq Size: 6413 bp

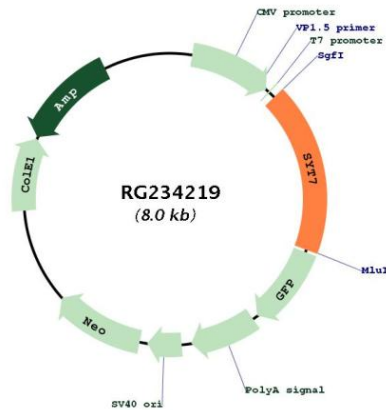
RefSeq ORF: 1437 bp

Locus ID: 9066

UniProt ID: [O43581](#)

Cytogenetics:	11q12.2
Protein Families:	Secreted Protein, Transmembrane
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 RG234219