

## Product datasheet for **RG212652**

### Synaptotagmin VII (SYT7) (NM\_004200) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin VII (SYT7) (NM_004200) 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)
ORF Nucleotide Sequence:	>RG212652 representing NM_004200 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTACCGGGACCCGGAGGCCGCCAGCCAGGGGCGCCCTCGCGCGACGTCTGCTGGTCTCTGCCATCA  
TCACCGTCAGCCTTAGCGTCACTGTCTGCTCTCGCGCCCTCGCCACTGGTGTGACGCGAAACTGGGCAA  
ACGCTACAAGAATTCCTTGGAGACGGTGGGCACGCCAGACTCAGGGCGTGGGCGCAGTGAGAAGAAGGCT  
ATCAAGTTGCCTGCAGGAGGGAAGGCGGTGAACACAGCCCCCGTCCAGGCCAGACACCCACGATGAGT  
CCGACCGCGGACCGAGCCACGTTCTCCGTCTCAGACCTCGTCAACTCCCTCACCAGCGAGATGCTCAT  
GCTCTCCCAGGCTCCGAGGAGGATGAGGCCACGAGGGTTGCAGCCGAGAGAACCTGGGCGGATCCAG  
TTCAGTGTGCGCTACAATTCCAGGAGTCCACGCTCACCGTGAAGATCATGAAGGCCAGGAGCTGCCGG  
CCAAGGACTTCAGCGGCACCAGCGACCCCTTCGTCAAGATCTACCTGCTGCCCGACAAGAAGCACAAAGT  
GGAGACCAAGGTGAAGCGGAAGAACCTGAACCCCACTGGAACGAGACCTTCTCTTTGAAGTTTTCCC  
TATGAGAAGGTGGTGCAGAGGATCCTCTACCTCCAAGTCTGGACTATGACCGTTCAGCCGCAACGACC  
CCATTGGGAGGTGTCCATCCCCCTTAAACAAGTGGACCTGACCCAGATGCAGACCTTCTGGAAGGATCT  
GAAGCCATGCAGCGATGGGAGTGGGAGCCGAGGGGAGCTGCTCTGTCTCTGCTACAACCCCTCTGCC  
AACTCCATCATCGTGAACATCATCAAAGCCCGAACCTCAAAGCCATGGACATCGGGGGCACATCAGACC  
CCTACGTGAAGGTATGGCTGATGTACAAGGACAAGCGGGTGGAGAAGAAGAAGACGGTGACGATGAAGAG  
GAACCTGAACCCATCTTCAATGAGTCTTCGCTTCGATATCCCCACGAGAAGCTGAGGGAGACGACC  
ATCATCATCACTGTATGGACAAGGACAAGCTCAGCCGAATGACGTCATCGGCAAGATCTACCTGTCT  
GGAAGAGCGGGCCAGGGGAGGTGAAGCACTGGAAGGACATGATTGCCGTCGCCGCGAGCCCGTGGCCCA  
GTGGCACCGCTGAAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212652 representing NM\_004200  
 Red=Cloning site Green=Tags(s)

MYRDPEAASPGAPSRDVLVLSAIIITVLSVTVVLCGLCHWCQRKLGKRYKNSLETVGTTPDSGRGRSEKKA  
 IKLPAGGKAVNTAPVPGQTPHDESDRRTEPRSSVSDLVNSLTSEMLMLSPGSEEDAHEGCSRENLGRIQ  
 FSVGYNFQESTLTVKIMKAQELPAKDFSGTSDPFVKIYLLPDKKHKLETKVKRKNLNPHWNETFLFEGFP  
 YEKVVQRILYLQVLDYDRFSRNDPIGEVSIPLNKVDLTQMOTFWKDLKPCSDGSGSRGELLLSLCYNPSA  
 NSIIVNIIKARNLKAMDIGGTSDPYVKVWLMYKDKRVEKKTVTMKRNLNPIFNESFAFDIPTEKLRETT  
 IITVMDKDKLSRNDVIGKIYLSWKS GPGEVKHWKDMIARPRQPVAQWHQLKA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004200

**ORF Size:** 1209 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\\_004200.3](#)

**RefSeq Size:** 4609 bp

**RefSeq ORF:** 1212 bp

**Locus ID:** 9066

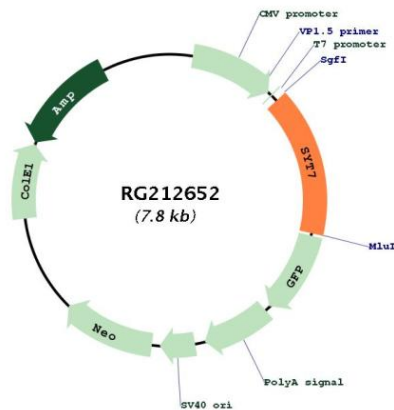
**UniProt ID:** [O43581](#)

**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 RG212652