

## Product datasheet for **RG206304**

### Synaptotagmin 4 (SYT4) (NM\_020783) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 4 (SYT4) (NM_020783) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Synaptotagmin 4
Synonyms:	HsT1192
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206304 representing NM_020783 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCGATCACCACCAGCCGGGAAGAATTTGATGAAATCCCCACAGTGGTGGGGATCTTCAGTGCAT  
TTGGCCTGGTCTTCACAGTCTCTCTTTGATGGATCTGCTGTCAGAGAAAATCATCCAAGTCTAACAA  
GACTCCTCCATACAAGTTTGTGCATGTGCTTAAGGGAGTTGATATTTACCCTGAAAACCTAAATAGCAA  
AAGAAGTTTGAGCAGATGATAAAAATGAAGTAAAGAATAAGCCAGCTGTGCCAAAGAATTCATTGCATC  
TGGATCTTGAAAAGAGAGATCTCAATGGCAATTTCCCAAACCAACCTCAAACCTGGCAGTCTTCTGA  
TCTGGAGAATGCAACCCGAGCTCTTTTAGAAGGGGAAAAGAGTCAAGTTCCCTGAGAGTTTAAAG  
TCCAGCACTTCCCTTACTTCAGAAGAGAAAACAAGAGAAGCTGGGAACCTCTTCTTCTCCTTAGAATACA  
ACTTCGAGAGAAAAGCATTGTGGTCAATATCAAGGAAGCCCGTGGCTTCCAGCCATGGATGAGCAGTC  
GATGACCTCTGACCCATATCAAAAATGACGATCCTCCAGAGAGAAGCATAAAGTAAAACCTAGAGTG  
CTGAGAAAAACCTTGGATCCAGCTTTTGTGAGACCTTACATTTATGGGATACCTACACACAAAATCC  
AAGAATTGGCCTTGCACTTCACAATTTGAGTTTTGACAGTTTTCAAGAGATGATATCATTGGGGAAGT  
TCTAATTCCTCTCTCGGGAATGAATATCTGAAGGAAAAATGTTAATGAATAGAGAGATCATCAAGAGA  
AATGTTAGGAAGTCTTCAGGACGGGTGAGTTACTGATCTCTCTGCTATCAGTCCAGCCAAACACTC  
TAACTGTGGTTGTCTTAAAAGCTCGACATCTGCCTAAATCTGATGTGTCCGGACTTTCAGATCCCTATGT  
CAAAGTGAACCTGTACCATGCCAAAAAGAGAATCTCCAAGAAGAAGACTCATGTGAAGAAATGCACCCCC  
AATGCAGTGTTCAATGAGCTGTTGTCTTTGATATTCCTTGTGAGGGCCTGAAGATATAAGTGTGAAT  
TTTTGGTTTTGGATTCTGAAAGGGGGTCCCGAAATGAGGTAATCGGGCAGTTAGTCTTGGGTGCAGCAGC  
AGAAGGAAGTGGTGGAGAGCACTGGAAAGAGATCTGTGACTACCCAGGAGACAAATTGCCAAGTGGCAC  
GTGCTCTGTGATGGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206304 representing NM\_020783  
 Red=Cloning site Green=Tags(s)

MAPITTSREEFDEIPTVVGIFSAFGLVFTVSLFAWICQQRKSSKSNKTPPYKFVHVLKGVDIYPENLNSK  
 KKF GADDKNEVKNKPAVPKNSLHLDLEKRD L NGNFPKTNL KPGSPSDLENATPKLFLEGEKESVSPESLK  
 SSTSLTSEEKQEKLGTLFFSLEYNFERKAFV VNIKEARGLPAMDEQSM TSDPYIKMTILPEKHKHKVTRV  
 LRKTLDPAFDETFTFYGIPTYQIQELALHFTILSFDRFSRDDIIGEVLIPLSGIELSEGKMLMNREIIKR  
 NVRKSSGRGELLISLCYQSTNTLTVVVLKARHLPKSDVSGLSDPYVKVNL YHAKKRISKK KTHVKKCTP  
 NAVFNELFVFDIPCEGLEDISVEFLVLDSEGRSRNEVIGQLVLGAAAEGTGGEHWKEICDYPRRQIAKWH  
 VLC DG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020783

**ORF Size:** 1275 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\\_020783.2](#), [NP\\_065834.1](#)

**RefSeq Size:** 3837 bp

**RefSeq ORF:** 1278 bp

**Locus ID:** 6860

**UniProt ID:** [Q9H2B2](#)

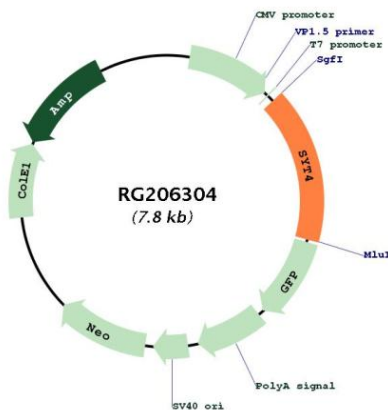
**Cytogenetics:** 18q12.3

**Domains:** C2

**Protein Families:** Secreted Protein, Transmembrane

**Gene Summary:** May be involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain or may serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis (By similarity). Plays a role in dendrite formation by melanocytes (PubMed:23999003).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG206304