

## Product datasheet for **SC327604**

### Synaptotagmin 3 (SYT3) (NM\_001160328) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 3 (SYT3) (NM_001160328) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYT3
Synonyms:	SytIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

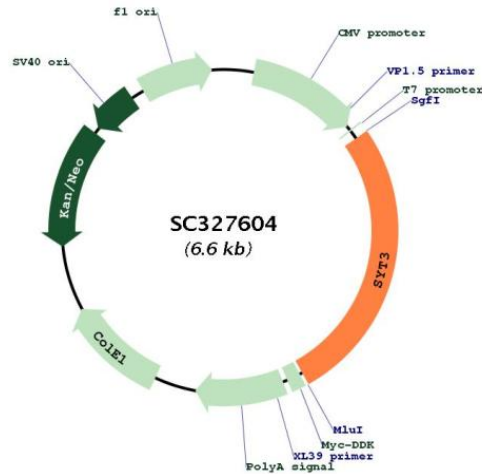


[View online »](#)

**Fully Sequenced ORF:** >SC327604 representing NM\_001160328.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCAGGAGACTACGAGGATGACCTCTGCCGGCGGGCACTCATCTGGTCTCGGACCTCTGTGCGCGG
GTCCGAGATGCTGACACCAACGACAGGTGCCAGGAGTTCAATGACCGAATCCGAGGCTATCCCCGGGGT
CCAGATGCAGACATCTCCGTGAGCCTGCTGTCGGTCATCGTGACATTCTGTGGCATTGTCCTTCTGGGT
GTCTCTCTCTTCGTGTCCTGGAAGTTGTGCTGGGTGCCCTGGCGGGACAAGGGAGGCTCGGCAGTGGGC
GGTGGCCCCCTGCGCAAAGACCTAGGCCCTGGTGTGCGGCTGGCAGGCCTGGTAGCGGAGGCGGGCAC
CACCTGGCGGCTGGCCTGGTGGCCATCTCTGCTGGCGGCCACACCACCATGCCATGCCGCCAC
CATCCACCCTTTGCTGAGCTGCTGGAGCCAGGCAGCCTGGGGGTTCTGACACCCTGAGCCCTCTAC
TTGGACATGGACTCGTATCCAGAGGCTGCAGCAGCAGCAGTGGCCGCTGGGGTCAAACCGAGCCAAACA
TCCCTGAGCTGCCCTCTGAGGGGGAGCAGGCTCTGGGTTGCTCTGCTGCCCCCACTGGTGGGGGC
TTGCCAGTGCCAGTCACATCAGCAGGTACAAGCCTGGCACCCACTACCAGGTACCCAGCCCTGCC
CGACCCCTCACCCAGCAGACTCTGACCTCCAGCCGACCCAGCAGTGAGGAGCGGCCACTGCCCTG
CCTTACCCCTGCCTGGAGGCGAGGAAAAAGCCAAACTCATTGGGCAGATTAAGCCAGAGCTGTACCAG
GGGACTGGCCCTGGTGGCCGGCGGAGCGGTGGGGGCCAGGCTCTGGAGAGGCAGGCACAGGGGCACCC
TGTGGCCGTATCAGCTTCGCCCTGCGGTACCTCTATGGCTCGGACCAGCTGGTGGTGGAGATCCTGCAG
GCCCTGGACCTCCCTGCCAAGGACTCCAACGGCTTCTCAGACCCCTACGTCAAGATCTACCTGCTGCCT
GACCGCAAGAAAAAGTTTCAGACCAAGGTGCACAGGAAGACCCGAACCCCGTCTTCAATGAGACGTTT
CAATTCTCGGTGCCCTGGCCGAGCTGGCCCAACGAAACTGCACTTCAGCGTCTATGACTTTGACCGC
TTCTCGCGGCACGACCTCATCGCCAGGTGGTGTGTTGACAACCTCCTGGAGCTGGCCGAGCAGCCCT
GACCGCCCGCTCTGGAGGACATCGTGGAGGGCGGCTCGGAAAAAGCAGATCTTGGGGAGCTCAACTTC
TCACTCTGCTACCTCCCCACGGCCGGCGCCTCACCGTGACCATCATCAAAGCCTCTAACCTCAAAGCG
ATGGACCTCACTGGCTTCTCAGACCCCTACGTGAAGGCCTCCCTGATCAGCGAGGGGCGGCGTCTGAAG
AAGCGGAAACCTCCATCAAGAAGAACACGCTGAACCCACCTATAATGAGGCGCTGGTGTTCGACGTG
GCCCCGAGAGCGTGGAGAACGTGGGGCTCAGCATCGCCGTGGTAGACTACGACTGCATCGGGCACAAC
GAGGTGATCGGCGTGTGCCGTGTGGGCCCGACGCTGCCGACCCGACGGCCGCGAGCACTGGGCAGAG
ATGCTGGCCAATCCCCGAAGCCGTGGAGCACTGGCATCAGCTAGTGGAGGAAAAGACTGTGACCAGC
TTCACAAAAGGCAGCAAAGGACTATCAGAGAAAGAGAAGTCCGAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001160328

**Insert Size:** 1773 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001160328.1](#)

**RefSeq Size:** 2857 bp

**RefSeq ORF:** 1773 bp

**Locus ID:** 84258

**UniProt ID:** [Q9BQG1](#)

**Cytogenetics:** 19q13.33

<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>MW:</b>	63.3 kDa
<b>Gene Summary:</b>	<p>Ca(2+) sensor involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain. Ca(2+) induces binding of the C2-domains to phospholipid membranes and to assembled SNARE-complexes; both actions contribute to triggering exocytosis (By similarity). Plays a role in dendrite formation by melanocytes (PubMed:23999003).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>