

## Product datasheet for SC104714

### SYTL2 (NM\_032379) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SYTL2 (NM_032379) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYTL2
Synonyms:	CHR11SYT; EXO4; SGA72M; SLP2; SLP2A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC104714 sequence for NM_032379 edited (data generated by NextGen Sequencing)

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ATGAGCAAGTCTGTTCCAGCATTCTCCAAGATGAGAGTGATGACAGAGAAACAGATACA
GCATCAGAAAGCAGTTACCAGCTCAGCAGACACAAGAAGAGCCCGAGCTCTTTAACCAAT
CTTAGCAGCTCCTCTGGCATGACGTCCTTGTCTTCTGTGAGTGGCAGTGTGATGAGTGT
TATAGTGGAGACTTTGGCAATCTGGAAGTTAAAGGAAATATTCAGTTTGAATTGAATAT
GTGGAGTCACTGAAGGAGTTGCATGTTTTTGTGGCCAGTGAAGGACTTAGCAGCAGCG
GATGTAAAAAACAGCGTTCAGACCCATATGTAAGGCCATTTGCTACCAGACAAAGGC
AAAATGGGCAAGAAGAAAACACTCGTAGTGAAGAAAACCTTGAATCCTGTGTATAACGAA
ATACTGCGGTATAAAATTGAAAAACAAATCTTAAAGACACAGAAATTGAACCTGTCCATT
TGGCATCGGGATACATTTAAGCGCAATAGTTTCCTAGGGGAGGTGGAACCTGATTTGGAA
ACATGGGACTGGGATAACAAACAGAATAAACAATTGAGATGGTACCCTCTGAAGCGGAAG
ACAGCACCAGTTGCCCTTGAAGCAGAAAACAGAGGTGAAATGAACTAGCTCTCCAGTAT
GTCCCAGAGCCAGTCCCTGGTAAAAAGCTTCTACAACCTGGAGAAGTGCACATCTGGGTG
AAGGAATGCCTTGATCTACCACTGCTAAGGGGAAGTCATCTAAATCTTTTGTAAATGT
ACCATCCTTCCAGATACAAGTAGGAAAAGTCGCCAGAAGACAAGAGCTGTAGGGAAAACC
ACCAACCCTATCTTCAACCACACTATGGTGTATGATGGGTTTCAGGCCTGAAGATCTGATG
GAAGCCTGTGTAGAGCTTACTGTCTGGGACCATTACAAATTAACCAACCAATTTTTGGGA
GGTCTTCGTATTGGCTTTGGAACAGGTAAGTTATGGGACTGAAGTGGACTGGATGGAC
TCTACTTCAGAGGAAGTTGCTCTCTGGGAGAAGATGGTAAACTCCCCAATACTTGGATT
GAAGCAACACTGCCTCTCAGAATGCTTTTGATTGCCAAGATTTCCAAATGA

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Clone variation with respect to NM\_032379.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_032379 unedited  
 TTGTATACGACTCTATAGGGCGCCGCGAATTCGGCACGAGGATACAGAAAGCCTTCG  
 CTTTTTCATCAATCAACCTCAAGCCCATATGTATCAAAAAGTGAAACACATCAGCCAATG  
 ACTTCTGGTCTTTTTCCAATTAATGGGCTGCATTCTCATTGAGAGTTTAACTGCAAGA  
 CCACAGTCTATGGAGAATTCACCAACCATCAATGAACCCAAAGATAAATCATCAGAATTA  
 ACAAGGCTTGAATCTGTATTACCCAGAAGCCCTGCTGATGAACTGTCTCATTGTGTGAG  
 CCTGAGCCATCTCAGGTGCCAGGTGGCAGTTCTAGAGACCGTCAGCAAGGTTTCAGAAGAA  
 GAACCCAGTCTGTTTTGAAAACCTTTGGAAAGGAGTGCCGCTAGGAAAATGCCTTCCAAA  
 AGTCTAGAAGACATTTTCATCAGATTCATCAAATCAAGCAAAAAGTAGATAATCAGCCAGAA  
 GAATTAGTGCAGTGTGGAAGATGTTTCCACAGTGCCTACACAACCTGATAATCCATTT  
 TCTCACCTGACAAAACAAAAGGATGAGCAAGTCTGTTCCAGCATTTCTCCAAGATGAG  
 AGTGATGACAGAGAAACAGATACAGCATCAGAAAGCAGTACCAGCTCAGCAGACACAAG  
 AAGAGCCCAGCTCTTTAACCAATCTTAGCAGCTCCTTGCCATGACGTCCTTGTCTTCT  
 GTGAGTGGCAGTGTGATGAGTGTATAGTGGAGACTTTGGCATCTGAAGTTAAAGGAAT  
 ATTCAGTTTGATTTGATATGTGGAGCACTGAAGGAGTTGCTGTTTTTGTGGCCAGTGT  
 AGGACTTACCACAGCGGATGTA AAAACAGCGTCAGACCTATGTAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_032379 unedited  
 GGGGGGAGGGGAAGCNCGCCCATTTTTNNNNNGGNNTTTGCTTGNNACGCGAGCCGCA  
 TTTNANGATCGAGTTTTTTTTTTTTTTTTTAAACAATTTAAATCAAATGATAATTTAT  
 TCTAAGGGTTTTTACAAAATACGAAAATTTTACATACATAAGAAGAACAGTATAACTGAG  
 CAACTTACATTCTAATTA AAACTTTGTTGCAAAACATGTTTGTGACTACTTTATGCTGC  
 TTTTCATATAGTAAAGTTATAAGAAAAACAATCATATATATGCAGGGTTTTAAAAAATAA  
 ACTCATAAAAATACAGGCTTGAGACCTATTTAGAAATTAAGTCAAAAACAAGCCAACAAC  
 GAATTGTACCTATGGCCAGTGGGTGGCACTAAAATACATTTGAGGCTGTTTTAACTGTT  
 TGTTTTCTCAAGGCAGAAAAACACCAGTGTTCAGTCTCATTGCCCTAATATGGAATTC  
 CATATTTTATTAGAGATTACAGAGTAAATAGTTTCTTAAGGTCCATTTTTTTTTTATCA  
 TCACTGATGTCTGTCTCCATTCCCTGCTCCACTTTGAGTATCTTTCTGCGACTTTTTCCC  
 ACAACCTACAAAGGTCTGCAAGGTACCAGACCCTCTTAAGTGTGGCACAGAATTGTGG  
 TGTGAAACACATGATGGCAAAACAAGAACATTTTGTCTTAAACAATACCCCATGTTTAAT  
 GCTCTGGGGCAGCTTTTTTTTTTGTGAGCAGCAGCAAAAATCAATTTTCTAGCTTGTTC  
 AATATCTTATTTAATTATTAGATCACAATTACATTTTGGTATATTTAAATCCCTTGG  
 GCTTGTNATCAAGAAGCACATGCAGATGGACTTTTACTGCTGGGTAAAATCCCTTAGGGC  
 ACTAGANGAAAAGTGAGGAATTTGTCCTACTCAAATTTTCAGACAAATCCACCGTTTAT  
 AGTTTAAATG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_032379

**Insert Size:**

2620 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).

**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\\_032379.3](#), [NP\\_115755.2](#)

**RefSeq Size:** 2407 bp

**RefSeq ORF:** 1131 bp

**Locus ID:** 54843

**Cytogenetics:** 11q14.1

**Domains:** C2

**Gene Summary:** The protein encoded by this gene is a synaptotagmin-like protein (SLP) that belongs to a C2 domain-containing protein family. The SLP homology domain (SHD) of this protein has been shown to specifically bind the GTP-bound form of Ras-related protein Rab-27A (RAB27A). This protein plays a role in RAB27A-dependent vesicle trafficking and controls melanosome distribution in the cell periphery. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Jun 2009]

Transcript Variant: This variant (b) lacks multiple exons in the 5' region compared to variant c. The resulting isoform (b) has a distinct and shorter N-terminus, as compared to the longest isoform (c). Variants b and e encode the same protein (isoform b).