

## Product datasheet for SC326902

### SYTL2 (NM\_001162952) Human Untagged Clone

#### Product data:

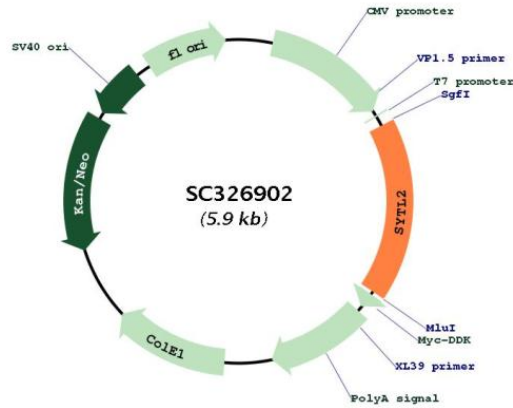
Product Type:	Expression Plasmids
Product Name:	SYTL2 (NM_001162952) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYTL2
Synonyms:	CHR11SYT; EXO4; PPP1R151; SGA72M; SLP2; SLP2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326902 representing NM_001162952. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCAAGTCTGTTCCAGCATTCTCCAAGATGAGGTGAGTGCCAGTGTGATGAGTGTTTATAGTGGG
GACTTTGGCAATCTGGAAGTTAAAGGAAATATTCAGTTTGCAATTGAATATGTGGAGTCACTGAAGGAG
TTGCATGTTTTGTGGCCAGTGAAGGACTTAGCAGCAGCGGATGTAACAAAAACAGCGTTCAGACCCA
TATGTAAGGCCTATTTGCTACCAGACAAAGGCAAAATGGGCAAGAAGAAAACTCGTAGTGAAGAAA
ACCTTGAATCCTGTGTATAACGAAATACTGCGGTATAAAATTGAAAAACAAATCTTAAAGACACAGAAA
TTGAACCTGTCCATTTGGCATCGGGATACATTTAAGCGCAATAGTTTCTAGGGGAGGTGGAACCTTGAT
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GCACCAGTTGCCCTTGAAGCAGAAAAACAGAGGTGAAATGAACTAGCTCTCCAGTATGTCCCAGAGCCA
GTCCCTGGTAAAAAGCTTCTACAACCTGGAGAAGTGCACATCTGGGTGAAGGAATGCCTTGATCTACCA
CTGCTAAGGGGAAGTCACTAAATCTTTTGTAAATGTACCATCCTCCAGATACAAGTAGGAAAAAGT
CGCCAGAAGACAAGAGCTGTAGGGAAAACCAACCCCTATCTCAACCACACTATGGTGTATGATGGG
TTCAGGCCTGAAGATCTGATGGAAGCCTGTGTAGAGCTTACTGTCTGGGACCATTACAAATTAACCAAC
CAATTTTTGGGAGGTCTTCGTATTGGCTTTGGAACAGGTAAAAGTTATGGGACTGAAGTGGACTGGATG
GACTCTACTTCAGAGGAAGTTGCTCTCTGGGAGAAGATGGTAAACTCCCCAATACTTGGATTGAAGCA
ACACTGCCTCTCAGAATGCTTTTGTATTGCCAAGATTTCCAAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001162952

**Insert Size:** 1011 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\\_001162952.2](#)

**RefSeq Size:** 2672 bp

**RefSeq ORF:** 1011 bp

**Locus ID:** 54843

UniProt ID: [Q9HCH5](#)

Cytogenetics: 11q14.1

MW: 38.5 kDa

**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 (h) lacks several 5' exons but contains an alternate 5' exon, and it thus differs in its 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant a. The encoded isoform (h) is shorter at the N-terminus, compared to isoform a. Both variants h and l encode isoform h.