

## Product datasheet for **RG228267**

### **SYTL2 (NM\_001162952) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SYTL2 (NM\_001162952) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SYTL2  
**Synonyms:** CHR11SYT; EXO4; PPP1R151; SGA72M; SLP2; SLP2A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG228267 representing NM\_001162952  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCAAGTCTGTTCCAGCATTCTCCAAGATGAGGTGAGTGGCAGTGTGATGAGTGTATAGTGGAG  
 ACTTTGGCAATCTGGAAGTTAAAGGAAATATTCAGTTTGAATTGAATATGTGGAGTCACTGAAGGAGTT  
 GCATGTTTTGTGGCCAGTGTAAGGACTTAGCAGCAGCGGATGTAAAAAACAGCGTTCAGACCCATAT  
 GTAAGGCCTATTTGCTACCAGACAAAGGCAAAATGGGCAAGAAGAAAACACTCGTAGTGAAGAAAACCT  
 TGAATCCTGTGTATAACGAAATACTGCGGTATAAAATTGAAAAACAAATCTTAAAGACACAGAAATTGAA  
 CCTGTCCATTTGGCATCGGGATACATTTAAGCGCAATAGTTTCTAGGGGAGGTGGAACCTTGATTTGGAA  
 ACATGGGACTGGGATAACAAACAGAATAAAACAATTGAGATGGTACCCTCTGAAGCGGAAGACAGCACCAG  
 TTGCCCTTGAAGCAGAAAACAGAGGTGAAATGAACTAGCTCTCCAGTATGTCCAGAGCCAGTCCCTGG  
 TAAAAAGCTTCTACAACCTGGAGAAGTGACATCTGGGTGAAGGAATGCCTTGATCTACCACTGCTAAGG  
 GGAAGTCATCTAATCTTTTGTAAATGTACCATCCTTCCAGATACAAGTAGGAAAAGTCGCCAGAAGA  
 CAAGAGCTGTAGGAAAACCAACCCATCTTCAACCAACATATGGTGTATGATGGGTTCAAGCCTGA  
 AGATCTGATGGAAGCCTGTGTAGAGCTTACTGTCTGGGACCATTACAAATTAACCAACCAATTTTTGGGA  
 GGTCTTCGATTGGCTTTGGAACAGGTAAGTTATGGGACTGAAGTGGACTGGATGGACTCTACTTCAG  
 AGGAAGTTGCTCTCTGGGAGAAGATGGTAAACTCCCCAATACTTGGATTGAAGCAACACTGCCTCTCAG  
 AATGCTTTTGATTGCAAGATTTCCAAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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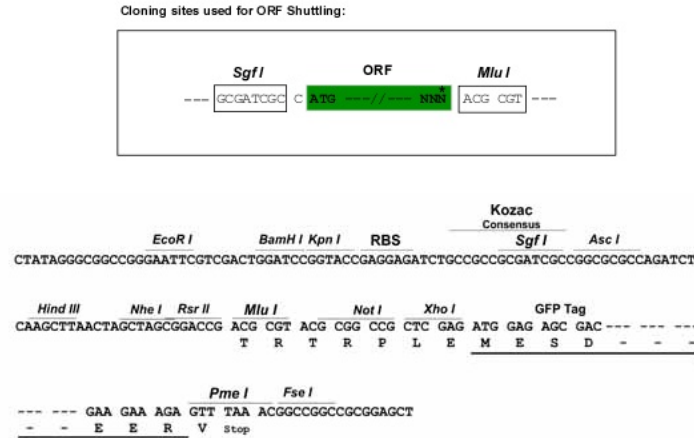
**Protein Sequence:** >RG228267 representing NM\_001162952  
 Red=Cloning site Green=Tags(s)

MSKSVPAFLQDEVSGSVMSVYSGDFGNLEVKGNIQFAIEYVESLKELVHVFVAQCKDLAAADVKKQRSDPY  
 VKAYLLPDKGKMGKKKTLVVKKTLNPVYNEILRYKIEKQILKTQKLNLSIWHRDTFKRNSFLGEVELDLE  
 TWDWDNKQNKQLRWYPLKRKTAPVALEAENRGEMKALQYVPEPVGKKLPTTGVEVHIWVKECLDLPLLR  
 GSHLNSFVKCTILPDTSRKSRQKTRAVGKTTNPIFNHTMVYDGFPEDLMEACVELTVWDHYKLTNQFLG  
 GLRIGFGTGKSYGTEVDWMDSTSEEVALWEKMNNSPNTWIEATLPLRMLLIKISK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001162952

**ORF Size:** 1008 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\\_001162952.2](#), [NP\\_001156424.1](#)

**RefSeq Size:** 2645 bp

**RefSeq ORF:** 1011 bp

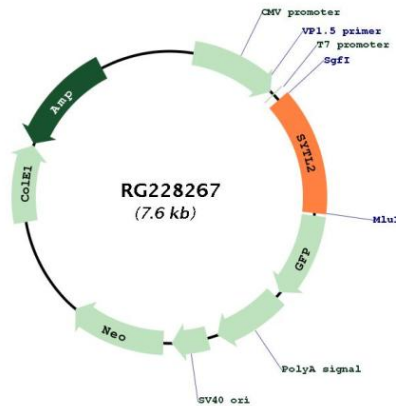
**Locus ID:** 54843

**UniProt ID:** [Q9HCH5](#)

**Cytogenetics:** 11q14.1

**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]

### Product images:



Circular map for RG228267