

## Product datasheet for **RG217642**

### **SYTL2 (NM\_206928) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SYTL2 (NM_206928) 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:	>RG217642 representing NM_206928 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGAACCCAATGCAGAACAGGTCTATAATCCCTCTCAGTTTGAGAATTTGAGAAAGTTTTGGGACT  
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TGAGTCATCAAAGGAAAATGTGGAAAAGAATACGGAAGGGATTGTTACTCCAAGTGTAAAGGAAGAAAAG  
GATTACTCAGAACAAGAGATTCAAGAATCCATAATAAAAACCAATGTTTTGTCTAAAGACTGCAAAGACA  
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TAAATCTCCAGGAGTATACCCATGGGCTACGATGGACACCATAGTCCAGACAGGAAGGATTTTAA  
TTCTCCAATGTAGTTCTGATAAACTCATGAAGTTGGATCTTATTTAGCTGCCAAATGTCTCCATCA



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GACCAGACGCTTAGCTCATTGCTTCCATTGTTGCTCAATATGGCAAAGGCCTCCCTCAGGAAGTGAAG  
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TACTTGGATTGAAGCAACACTGCCTCTCAGAATGCTTTTGATTGCCAAGATTTCCAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG217642 representing NM\_206928  
 Red=Cloning site Green=Tags(s)

MDEPNAEQVYNPSQFENLRKFDWLEANSNSKDNDKNITTTTSQKNSAPFNRQKHKEFSDIKLSGKNTHEAE  
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 FFGKGIQSHNTSADKREILAPFPVRDETFGNTALLKKAESGECQLSTQNLIQMAAEDSHPLDPTSQLSR  
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 FLGEVELDLETWDWQNKQKQLRWYPLKRKTAPVALEAENRGMKALQYVPEPVPKGLPTTGEVHIWV  
 KECLDLPLLRGSHLNSFKVCTILPDTSRKSRQKTRAVGKTTNPIFNHTMVYDGFREPDLMEACVELTVWD  
 HYKLTNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWEKMNVPNTWIEATLPLRMLLI AKISK

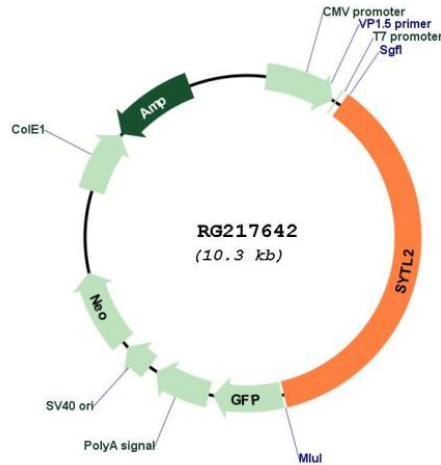
TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_206928

**ORF Size:** 3768 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\\_206928.2](#), [NP\\_996811.1](#)

**RefSeq Size:** 4759 bp

**RefSeq ORF:** 6669 bp

**Locus ID:** 54843

**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]