

Product datasheet for **RG217701**

SYTL2 (NM_206929) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYTL2 (NM_206929) 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:	>RG217701 representing NM_206929 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAAGTCTGTTCCAGCATTCTCCAAGATGAGAGTGATGACAGAGAAACAGATACAGCATCAGAAA
GCAGTTACCAGCTCAGCAGACACAAGAAGACGCCGAGCTCTTAACCAATCTTAGCAGCTCCTCTGGCAT
GACGTCCTTGCTTCTGTGAGTGGCAGTGTGATGAGTGTTATAGTGGAGACTTTGGCAATCTGGAAGTT
AAAGGAAATATTCAGTTGCAATTGAATATGTGGAGTCACTGAAGGAGTTGCATGTTTTTGTGGCCAGT
GTAAGGACTTAGCAGCAGCGGATGTAACAAAACAGCGTTCAGACCCATATGTAAGGCCTATTTGCTACC
AGACAAAGGCAAAATGGGCAAGAAGAAAACACTCGTAGTGAAGAAAACCTTGAATCCTGTGTATAACGAA
ATACTGCGGTATAAAATTGAAAAACAAATCTTAAAGACACAGAAATTGAACCTGTCCATTTGGCATCGGG
ATACATTTAAGCGCAATAGTTTCTAGGGGAGGTGGAACCTTGATTTGAAACATGGGACTGGGATAACAA
ACAGAATAACAATTGAGATGGTACCCTCTGAAGCGGAAGACAGCACCAGTTGCCCTTGAAGCAGAAAAAC
AGAGGTGAAATGAACTAGCTCTCCAGTATGCCAGAGCCAGTCCCTGGTAAAAAGCTTCTACAACCTG
GAGAAGTGCACATCTGGGTGAAGGAATGCCTTGATCTACCACTGCTAAGGGGAAGTCATCTAAATCTTT
TGTTAAATGTACCATCCTCCAGATAACAAGTAGGAAAAGTCGCCAGAAGACAAGAGCTGTAGGGAAAACC
ACCAACCTATCTCAACCACACTATGGTGTATGATGGGTTTAGGCTGAAGATCTGATGGAAGCCTGTG
TAGAGCTTACTGTCTGGGACCATTACAAATTAACCAACCAATTTTTGGGAGGTCTTCGTATTGGCTTTGG
AACAGGTAAGGTTATGGGACTGAAGTGGACTGGATGGACTCTACTTCAGAGGAAGTTGCTCTCTGGGAG
AAGATGGTAAACTCCCCAATACTTGGATTGAAGCAACACTGCCTCTCAGAATGCTTTTGATTGCCAAGA
TTTCCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217701 representing NM_206929
 Red=Cloning site Green=Tags(s)

MSKSVP AFLQDESDDRETDTASESSYQLSRHKKSPSSLTNLSSSSGMTSLSSVSGSVMSVSYSGDFGNLEV
 KGNIQFAIEYVESL KELHVFVAQCKDLAAADVKKQRSDPYVKAYLLPDKGKMGKKKTLVVKKTLNPVYNE
 ILRYKIEKQILKTQKLNLSIWHRDTFKRNSFLGEVELDLETWDWLNKQNKQLRWYPLKRKTAPVALEAEN
 RGEMKLALQYVPEPVPGKLLPTTGEVHIWYKECLDPLLRGSHLNSFVKCTILPDTSRKSRQKTRAVGKT
 TNPIFNHTMYYDGFREPDLMEACVELTVWDHYKLTNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWE
 KMNPSNTWIEATLPLRMLLIAKISK

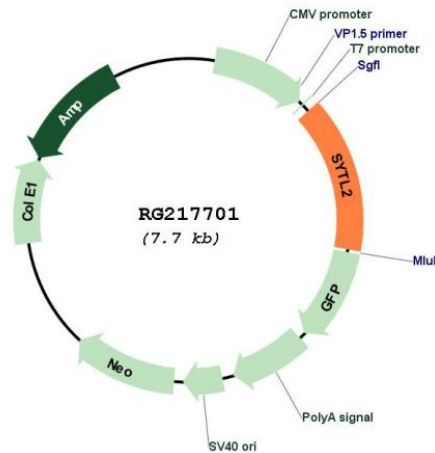
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_206929

ORF Size:	1128 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:	<ol style="list-style-type: none">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_206929.3 , NP_996812.1
RefSeq Size:	2447 bp
RefSeq ORF:	1131 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]