

## Product datasheet for **RG229041**

### **SYTL2 (NM\_001162951) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SYTL2 (NM_001162951) 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)



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**ORF Nucleotide Sequence:**

>RG229041 representing NM\_001162951  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATTGACTTAAGCTTCTGACTGAAGAGGAACAAGAGGCCATCATGAAGTTTTGCAGCGGGATGCTG  
 CTCTGAAGAGGGCCGAAGAAGAGAGAGTACAGACATTTGCCTGAAAAAATTAAGGATGACCAGCAGCTGAA  
 GAATATGAGTGGCCAATGGTTTTATGAAGCCAAGGCAAAAAGGCACAGGGACAAAATCCATGGCGCAGAT  
 ATCATCAGAGCATCTATGAGAAAAGAGGGCCCCAGATAGCAGCTGAGCAGAGTAAAGACAGAGAAAATG  
 GGGCAAAGGAAAGCTGGGTGAATAATGTCAACAAAGATGCTTTCCTTCTCCAGAGCTGGCTGGCGTTGT  
 AGAAGAGCCAGAAGAGGATGCAGCACCAGCAAGCCGAGTTCAGTGTGGTAAATCCAGTTCAGTGTG  
 ATTGATATGTCCAGGAAAACACAAGGAAACAAATGTGTCTCCAGAGAAGCAGAGGAAGAATCCGTTTA  
 ATAGCTCCAAGTTGCCAGAAGGTCACTCGTCACAACAACTAAAAATGAACAGTCAAAAAATGGAAGAAC  
 TGGTTTATTTAGACTTCAAAGAGGATGAATTGTGAGTCAAAAAGAAAAGTCAACTGTGCGAGATACT  
 TCAATCCAAAAGTTAGAGAAATCAAAGCAGACTTTGCCAGGCCTTCAAATGGGTCCAAAATCAAGGCTC  
 CAATCCCCAAAGCCAGGAAGATGATCTACAATCAACTGATTTAAACAAAGATGATAACCAAGTCTTTTCC  
 TAGACAAAGGACAGACTCCCTGAAAGCGAGAGGGGCTCCGAGAGGGATCCTCAAGCGCAACTCCAGTTCC  
 AGTAGCACAGACTCAGAAACCCCTCGTTATAATCACAACCTTTGAACCCAAAAGCAAAAATGTGTACCTG  
 GCCTAACCATCCATGAGAGAATTTCTGAGAAGGAGCATTCTTTAGAAGACAACCTTTCCCAAACTCCCT  
 GGAGCCATTAAGCATGTGAGATTCTCTGCAGTGAAGGATGAGCTTCCACAGAGTCTGGGCTAATCCAT  
 GGTCCGGGAAGTAGGAGAAATTTAGTGTTTAGAATCTGACAGATTGAAAAATGGAATGGAAGATGCAGGGG  
 ACACAGAAGAGTTTCAGAGTGACCCTAAGCCTTCTCAATACAGAAAAGCCTTCGCTTTTTCTCAATCAAC  
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 AAGACATTTTCATCAGATTCATCAATCAAGCAAAAGTAGATAATCAGCCAGAAGAATTAGTGCAGTAGTC  
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 GTCCTTGTCTTCTGTGAGTGGCAGTGTGATGAGTGTATAGTGGAGACTTTGGCAATCTGGAAGTTAAA  
 GGAAATATTCAGTTTGAATTAATATGTGGAGTCACTGAAGGAGTTGCATGTTTTTGTGGCCAGTGTA  
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 AACCTATCTTCAACCACACTATGGTGTATGATGGGTTCCAGCCTGAAGATCTGATGGAAGCCTGTGTAG  
 AGCTTACTGTCTGGACCATTAACAATTAACCAACCAATTTTGGGAGGTCTTCTGATTGGCTTTGGAAC  
 AGGTAAAAGTTATGGGACTGAAGTGGACTGGATGGACTCTACTTCAGAGGAAGTTGCTCTCTGGGAGAAG  
 ATGGTAAACTCCCCAATACTTGGATTGAAGCAACACTGCCTCTCAGAATGCTTTTGATTGCCAAGATTT  
 CCAA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG229041 representing NM\_001162951  
Red=Cloning site Green=Tags(s)

MIDL SFL TEEEQEAIMKVLQRDAALKRAEEERVHRLPEKIKDDQQLKNMSGQWFYEAKAKRHRDKIHGAD  
 IIRASMRKKRPQIAAEQSKDRENGAKESWYNNVNDKDALPPELAGVVEEPEEDAAPASPSVVNPASSV  
 IDMSQENTRKPNSVPEKQRKNPFNSSKLPFGHSSQQTNEQSKNGRTGLFQTSKEDELSSEKSTVADT  
 SIQKLEKSKQTLPLGLSNGSQIKAPIKARKMIYKSTDLNKDDNQSFPRQRTDSLKARGAPRGILKRNSSS  
 SSTDSETLRYNHNFEPKSKIVSPLTIHERISEKEHSLEDNSSPNLEPLKHVRFSAVKDELQSPGLIH  
 GREVGESVLESRLKNGMEDAGDTEEFQSDPKPSQYRKP SLFHQSTSSPYVSKSETHQPMTSGSFPING  
 LHSSEVLTARPQSMENSPTINEPKDKSSELTRLESVLPSPADELSHCVEPEPSQVPGGSSRDRQQGSE  
 EEPSPVLKTLERSAARKMPSKSLIEDISSDSSNQAKVDNQPEELVRS AEDVSTVPTQPDNPF SHPKLKR  
 SKSVPAFLQDESDDRETDTASESSYQLSRHKKSPSSLTNLSSSSGMTSLSSVSGSVMSVYSGDFGNLEVK  
 GNIQFAIEYVESLKELVFVAQCKDLAAADVKKQRSDPYVKAYLLPDKGKMGKKKTLVVKKTLNPNVYNEI  
 LRYKIEKQILKTQKLNLSIWHRDTFKRNSFLGEVELDLETWWDNKQNKQLRWYPLKRKTAPVALEAENR  
 GEMKLALQYVPEPVPGKKLPTTGEVHIWVKECLDLLPLRGSHLNSFVKCTILPDTSRKSRQKTRAVGKTT  
 NPIFNHTMYVDGFRPEDLMEACVELTVWDHYKLTNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWEK  
 MVNSPNTWIEATLPLRMLLIAKISK

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

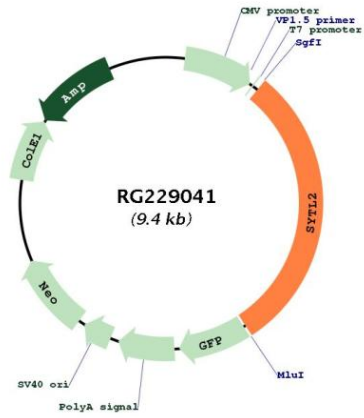


**ACCN:** NM\_001162951

**ORF Size:** 2802 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001162951.1</a> , <a href="#">NP_001156423.1</a>
<b>RefSeq Size:</b>	4057 bp
<b>RefSeq ORF:</b>	2805 bp
<b>Locus ID:</b>	54843
<b>UniProt ID:</b>	<a href="#">Q9HCH5</a>
<b>Cytogenetics:</b>	11q14.1
<b>Gene Summary:</b>	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 RG229041