

Product datasheet for **RG229042**

SYTL2 (NM_001162953) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYTL2 (NM_001162953) 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:

>RG229042 representing NM_001162953
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTGACTTAAGCTTCTGACTGAAGAGGAACAAGAGGCCATCATGAAGGTTTTGCAGCGGGATGCTG
 CTCTGAAGAGGGCCGAAGAAGAGAGAGTACACATTTGCCTGAAAAAATTAAGGATGACCAGCAGCTGAA
 GAATATGAGTGGCCAATGGTTTTATGAAGCCAAGGCAAAAAGGCACAGGGACAAAATCCATGGCGCAGAT
 ATCATCAGAGCATCTATGAGAAAAGAGGGCCCCAGATAGCAGCTGAGCAGAGTAAAGACAGAGAAAATG
 GGGCAAAGGAAAGCTGGGTGAATAATGTCAACAAAGATGCTTTCCTTCTCCAGAGCTGGCTGGCGTTGT
 AGAAGAGCCAGAAGAGGATGCAGCACCAGCAAGCCGAGTTCAGTGTGGTAAATCCAGTTCAGTGTG
 ATTGATATGTCCAGGAAAACACAAGGAAACCAATGTGTCTCCAGAGAAGCAGAGGAAGAATCCGTTTA
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 TGGTTTATTTAGACTTCAAAGAGGATGAATTGTGAGTCAAAAAGAAAAGTCAACTGTGCGAGATACT
 TCAATCCAAAAGTTAGAGAAATCAAAGCAGACTTTGCCAGGCCTTCAAATGGGTCCAAAATCAAGGCTC
 CAATCCCCAAAGCCAGGAAGATGATCTACAATCAACTGATTTAAACAAAGATGATAACCAAGTCTTTTCC
 TAGACAAAGGACAGACTCCCTGAAAGCGAGAGGGGCTCCGAGAGGGATCCTCAAGCGCAACTCCAGTTCC
 AGTAGCACAGACTCAGAAACCCCTCGTTATAATCACAACCTTTGAACCCAAAAGCAAAAATGTGTACCTG
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 GGAGCCATTAAGCATGTGAGATTTCTGCAAGTGAAGGATGAGCTTCCACAGAGTCTGGGCTAATCCAT
 GGTCCGGGAAGTAGGAGAATTTAGTGTTTAGAATCTGACAGATTGAAAAATGGAATGGAAGATGCAGGGG
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 AGCAAGTCTGTTCCAGCATTTCTCAAGATGAGAGTGTGACAGAGAAACAGATACAGCATCAGAAAGCA
 GTTACCAGCTCAGCAGACACAAGAAGAGCCGAGCTCTTAACCAATCTTAGCAGCTCCTCTGGCATGAC
 GTCCTTGTCTTCTGTGAGTGGCAGTGTGATGAGTGTATAGTGGAGACTTTGGCAATCTGGAAGTTAAA
 GGAAATATTCAGTTTGAATTAATATGTGGAGTCACTGAAGGAGTTGCATGTTTTTGTGGCCAGTGTGA
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 AACCTATCTTCAACCACACTATGGTGTATGATGGGTTCCAGCCTGAAGATCTGATGGAAGCCTGTGTAG
 AGCTTACTGTCTGGACCATTAACAATTAACCAACCAATTTTGGGAGGTCTTCTGATTGGCTTTGGAAC
 AGGTAAAAGTTATGGGACTGAAGTGGACTGGATGGACTCTACTTCAGAGGAAGTTGCTCTCTGGGAGAAG
 ATGGTAAACTCCCCAATACTTGGATTGAAGCAACACTGCCTCTCAGAATGCTTTTGATTGCCAAGATTT
 CCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG229042 representing NM_001162953
Red=Cloning site Green=Tags(s)

MIDL SFL TEEEQEAIMKVLQRDAALKRAEEERVHRLPEKIKDDQQLKNMSGQWFYEAKAKRHRDKIHGAD
 IIRASMRKKRPQIAAEQSKDRENGAKESWYNNVNDKDAFLPPELAGVVEEPEEDAAPASPSVVNPASSV
 IDMSQENTRKPNSVPEKQRKNPNSKLP EGHSSQQTNEQSKNGRTGLFQTSKEDELSSEKSTVADT
 SIQKLEKSKQTL PGLSNGSQIKAPIKARKMIYKSTDLNKDDNQSFPRQRTDSLKARGAPRGILKRNSSS
 SSTDSETLRYNHNFEPKSKIVSPLTIHERISEKEHSLEDNSSPNLEPLKHVRFSAVKDEL PQSPGLIH
 GREVGESVLES DRLKNGMEDAGDTEEFQSDPKPSQYRKP SLFHQSTSSPYVSKSETHQPMTSGSFPING
 LHSHEVLTARPQSMENSPTINEPKDKSSELTRLESVLP RSPADELSHCVEPEPSQVPGGSSRDRQQGSE
 EEPSPVLKTLERSAARKMPSKSLIEDISSDSSNQAKVDNQPEELVRS AEDVSTVPTQPDNPF SHPKLKR
 SKSVPAFLQDESDDRETDTASESSYQLSRHKSPSSLTNLSSSSGMTSLSSVSGSVMSVYSGDFGNLEVK
 GNIQFAIEYVESL KELHVFVAQCKDLAAADVKKQRSDPYVKAYLLPDKGKMGKKKTLVVKKTLNPNVYNEI
 LRYKIEKQILKTQKLNLSIWHRDTFKRNSFLGEVELDLETDWDNKQNKQLRWYPLKRKTAPVALEAENR
 GEMKLALQYVPEPVPGKKLPTTGEVHIWVKECLDLLPLRGSHLNSFVKCTILPDTSRKSRQKTRAVGKTT
 NPIFNHTMYVDGFRPEDLMEACVELTVWDHYKLTNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWEK
 MVNSPNTWIEATLPLRMLLIAKISK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

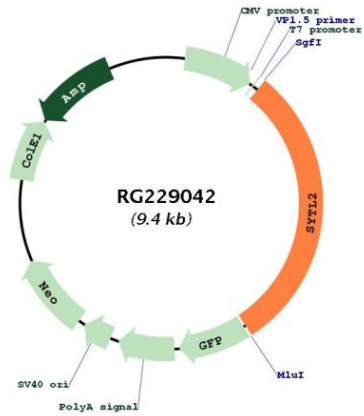


ACCN: NM_001162953

ORF Size: 2805 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_001162953.1 , NP_001156425.1
RefSeq Size:	4060 bp
RefSeq ORF:	2808 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 RG229042