

Product datasheet for **RG221233**

SYTL2 (NM_206930) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYTL2 (NM_206930) 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:	>RG221233 representing NM_206930 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGATGACAGAGAAACAGATACAGCATCAGAAAGCAGTTACCAGCTCAGCAGACACAAGAAGAGCC
CGAGCTCTTTAACCAATCTTAGCAGCTCCTCTGGCATGACGTCTTGTCTTCTGTGAGTGGCAGTGTGAT
GAGTGTTTATAGTGGAGACTTTGGCAATCTGGAAGTTAAAGGAAATATTCAGTTTGAATTGAATATGTG
GAGTCACTGAAGGAGTTGCATGTTTTTGTGGCCAGTGAAGGACTTAGCAGCAGCGGATGTAATAAAAAAC
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TGGAACTTGATTTGGAACATGGGACTGGGATAACAAACAGAATAAACAATTGAGATGGTACCCTCTGAA
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CCAGAGCCAGTCCCTGGTAAAAAGCTTCTACAACCTGGAGAAGTGCACATCTGGGTGAAGGAATGCCTTG
ATCTACCACTGCTAAGGGGAAGTCATCTAAATCTTTTGTAAATGTACCATCCTCCAGATACAAGTAG
GAAAAGTCGCCAGAAGACAAGAGCTGTAGGAAAACCAACCCATCTTCAACCACACTATGGTGTAT
GATGGGTTTCAGGCCTGAAGATCTGATGGAAGCCTGTGTAGAGCTTACTGTCTGGGACCATTACAAATTA
CCAACCAATTTTGGGAGGTCTTCGTATTGGCTTTGGAACAGGTAAGTTATGGGACTGAAGTGGACTG
GATGGACTCTACTTCAGAGGAAGTTGCTCTCTGGGAGAAGATGGTAAACTCCCCAATACTTGGATTGAA
GCAACACTGCCTCTCAGAATGCTTTTGATTGCCAAGATTTCCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221233 representing NM_206930
Red=Cloning site Green=Tags(s)

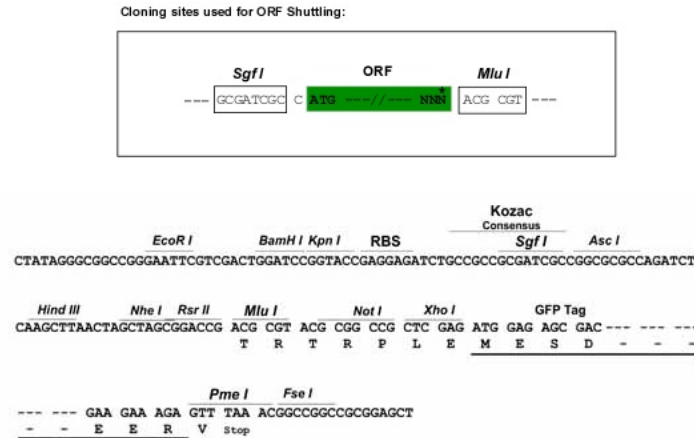
MSDDRETDTASESSYQLSRHKKSPSSLTNLSSSSGMTSLSSVSGSVMSVYSGDFGNLEVKGNIQFAIEYV
 ESLKELHVFVAQCKDLAAADVKKQRSDPYVKAYLLPDKGKMGKKKTLVVKKTLNPVYNEILRYKIEKQIL
 KTQKLNLSIWHRDTFKRNSFLGEVELDLETWDWLNKQNKQLRWYPLKRKTAAPVALEAENRGEMKALQYV
 PEPVPGKKLPTTGEVHIWVKECLDLPLLRGSHLNSFVKCTILPDTSRKSRQKTRAVGKTTNPIFNHTMVY
 DGFREPDLMEACVELTVWDHYKLTNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWEKMMVNSPNTWIE
 ATPLRMLLIKISK

TRTRPLE - GFP Tag - V

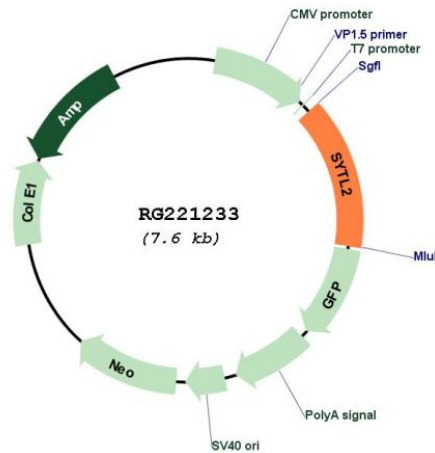
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_206930

ORF Size:	1095 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_206930.3 , NP_996813.1
RefSeq Size:	2450 bp
RefSeq ORF:	1098 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]