

Product datasheet for **RC236971**

SYTL2 (NM_001289609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYTL2 (NM_001289609) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYTL2
Synonyms:	CHR11SYT; EXO4; PPP1R151; SGA72M; SLP2; SLP2A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236971 representing NM_001289609 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCAAGAAGAAAACACTCGTAGTGAAGAAAACCTTGAATCCTGTGTATAACGAAATACTGCGGTATA
AAATTGAAAAACAAATCTTAAAGACACAGAAATTGAACCTGTCCATTTGGCATCGGGATACATTTAAGCG
CAATAGTTTCTAGGGGAGGTGGAACCTGATTTGGAAACATGGGACTGGGATAACAAACAGAATAAACAA
TTGAGATGGTACCCTCTGAAGCGGAAGACAGCACCAGTTGCCCTTGAAGCAGAAAACAGAGGTGAAATGA
AACTAGCTCTCCAGTATGTCCCAGAGCCAGTCCCTGGTAAAAAGCTTCTACAACCTGGAGAAGTGCACAT
CTGGGTGAAGGAATGCCTTGATCTACCCTGCTAAGGGGAAGTCACTAAATCTTTTGTAAATGTACC
ATCCTTCCAGATACAAGTAGGAAAAGTCGCCAGAACAGAGCTGTAGGGAAAACCACCAACCCTATCT
TCAACCACACTATGGTGTATGATGGGTTCCAGGCCTGAAGATCTGATGGAAGCCTGTGTAGAGCTTACTGT
CTGGGACCATTACAAATTAACCAACCAATTTTGGGAGGTCTTCGATTGGCTTTGGAACAGGTAAGT
TATGGGACTGAAGTGGACTGGATGGACTCTACTCAGAGGAAGTTGCTCTCTGGGAGAAGATGGTAACT
CCCCAATACTTGATTGAAGCAACACTGCCTCTCAGAATGCTTTTGATTGCCAAGATTTCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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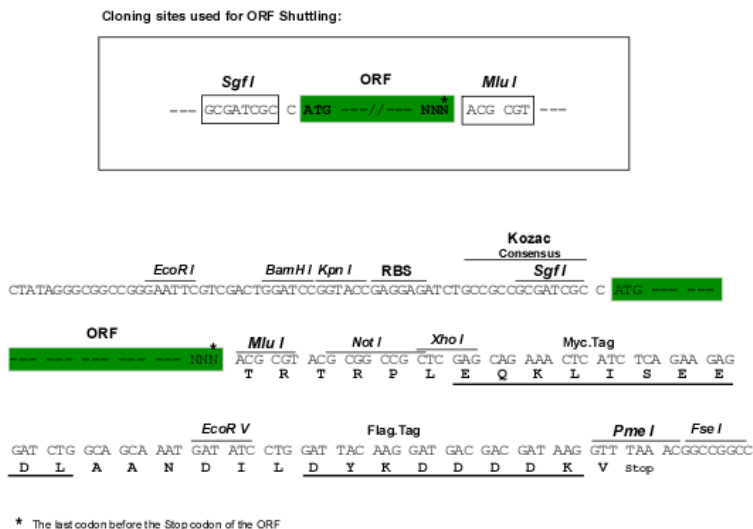
Protein Sequence: >RC236971 representing NM_001289609
Red=Cloning site Green=Tags(s)

MGKKKTLVVKKTLNPVYNEILRYKIEKQILKTQKLNLSIWHRDTFKRNSFLGEVELDLETWWDNKNQKQ
 LRWYPLKRKTAPVALEAENRGEMKALQYVPEPVPKGLPTTGEVHIWVKECLDLPLLRGSHLNSFVKCT
 ILPDTSRKSRQKTRAVGKTTNPIFNHTMYYDGFREPDLMEACVELTVWDHYKLTNQFLGGLRIGFGTGKS
 YGTEVDWMDSTSEEVALWEKMNPNPTWIEATLPLRMLLIKISK

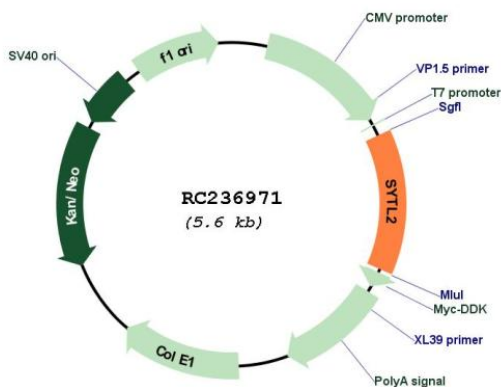
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289609
ORF Size: 765 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_001289609.1 , NP_001276538.1
RefSeq Size:	2785 bp
RefSeq ORF:	768 bp
Locus ID:	54843
UniProt ID:	Q9HCH5
Cytogenetics:	11q14.1
MW:	30 kDa
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]