

Product datasheet for RC228267

SYTL2 (NM_001162952) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYTL2 (NM_001162952) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYTL2
Synonyms:	CHR11SYT; EXO4; PPP1R151; SGA72M; SLP2; SLP2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228267 representing NM_001162952 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCAAGTCTGTTCCAGCATTCTCCAAGATGAGGTGAGTGGCAGTGTGATGAGTGTATAGTGGAG
ACTTTGGCAATCTGGAAGTTAAAGGAAATATTCAGTTTGAATGATGTGGAGTCACTGAAGGAGTT
GCATGTTTTGTGGCCAGTGTAAGGACTTAGCAGCAGCGGATGTAAAAAACAGCGTTCAGACCCATAT
GTAAGGCCTATTTGCTACCAGACAAAGGCAAAATGGGCAAGAAGAAAACACTCGTAGTGAAGAAAACCT
TGAATCCTGTGTATAACGAAATACTGCGGTATAAAATTGAAAAACAAATCTTAAAGACACAGAAATTGAA
CCTGTCCATTTGGCATCGGGATACATTTAAGCGCAATAGTTTCTAGGGGAGGTGGAACCTTGATTTGGAA
ACATGGGACTGGGATAACAAACAGAATAAAACAATTGAGATGGTACCCTCTGAAGCGGAAGACAGCACCAG
TTGCCCTTGAAGCAGAAAACAGAGGTGAAATGAACTAGCTCTCCAGTATGTCCAGAGCCAGTCCCTGG
TAAAAGCTTCTACAACCTGGAGAAGTGACATCTGGGTGAAGGAATGCCTTGATCTACCACTGCTAAGG
GGAAGTCATCTAAATCTTTTGTAAATGTACCATCCTCCAGATACAAGTAGGAAAAGTCGCCAGAAGA
CAAGAGCTGTAGGAAAACCAACCCATCTTCAACCACTATGGTGTATGATGGGTTCAAGGCTGA
AGATCTGATGGAAGCCTGTGTAGAGCTTACTGTCTGGGACCATTACAAATTAACCAACCAATTTTTGGGA
GGTCTTCGATTGGCTTTGGAACAGGTAAGTTATGGGACTGAAGTGGACTGGATGGACTCTACTTCAG
AGGAAGTTGCTCTCTGGGAGAAGATGGTAAACTCCCCAATACTTGGATTGAAGCAACACTGCCTCTCAG
AATGCTTTTGATTGCAAGATTTCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228267 representing NM_001162952
Red=Cloning site Green=Tags(s)

MSKSVPAFLQDEVSGSVMSVYSGDFGNLEVKGNIQFAIEYVESLKELVHVFVAQCKDLAAADVKKQRSDPY
 VKAYLLPDKGKMGKKKTLVVKKTLNPVYNEILRYKIEKQILKTQKLNLSIWHRDTFKRNSFLGEVELDLE
 TWDWDNKQNKQLRWYPLKRKTAPVALEAENRGMKLLALQYVPEPVGKKLPTTGVEVHIWVKECLDLPLLR
 GSHLNSFVKCTILPDTSRKSRQKTRAVGKTTNPIFNHTMVYDGFPEDLMEACVELTVDHYKLTNQFLG
 GLRIGFGTGKSYGTEVDWMDSTSEEVALWEKMNNSPNTWIEATLPLRMLLIKISK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8053_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001162952

ORF Size: 1008 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:

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_001162952.2](#), [NP_001156424.1](#)

RefSeq ORF: 1011 bp

Locus ID: 54843

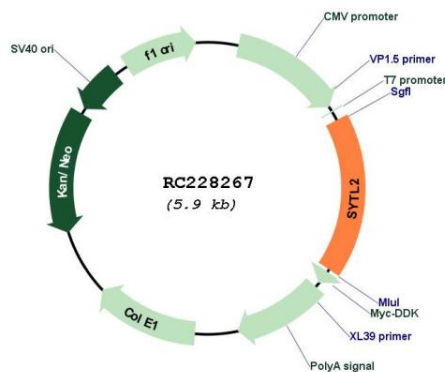
UniProt ID: [Q9HCH5](#)

Cytogenetics: 11q14.1

MW: 38.3 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]

Product images:



Circular map for RC228267