

Product datasheet for **RC224850**

SYTL1 (NM_032872) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYTL1 (NM_032872) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYTL1
Synonyms:	JFC1; SLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC224850 representing NM_032872
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCCAGAGGGGCCACCCATCGCAAGAGGGGCTTTGGGCTCTGCCCTCCCTCCCCATGGCGCATGGGC
 CAAAGCCTGAGACTGAAGGACTGTTGGACCTCAGCTTCTGACAGAGGAGGAGCAGGAGGCCATTGCTGG
 CGTCTCCAACGAGATGCCCCGCTGCGCCAGCTGGAGGAGGGGCGGGTCAGCAAGCTCCGGGCTCAGTG
 GCAGACCTGGGAGCTGAAGATCTGACAGGGGACTGGTTCCAGGAAGCACGCTCCAGCGGCCACCACA
 ATGCCCCACTTCGGCTCTGACCTTGTCCGAGCGTCTATGCGCAGGAAGAAGAGCACCAGGGGAGACCAGGC
 TCCAGGCCACGACAGGGAGGCTGAGGCTGCTGTAAAGAGAAGGAAGAGGGGCCAGAGCCCAGGCTCACC
 ATTGATGAGGCCCTCAGGAGAGGCTCAGGAGACTGAGGCTTCAGATCCTGAGGAGGCGTCCAGGCC
 AGGAAGATCCTGGCCAAGGAGACCAACAGGTCTGTGCCGAGGAGGCTGACCCGGAGCTGGAGCCCGCTC
 GGGGGGAGAGCAGGAGCCGCGGCCCCAGCAAGCCAGACCAAGGCCGCGTCCAGATCCTGGAGAATGGG
 GAGGAGGCCCCGGGGCCGACCCCTCTCTCGACCGCATGCTCAGCAGCAGCTCCTCGGTGTCCAGCCTTA
 ACTCTCCACGCTGAGCGGCAGCCAGATGAGCCTGTGAGGCGACGCGGAGGCGGTGCAGGTCCGCGGCTC
 CGTGCACTTCGCGCTGCACTACGAGCCGGGCGCCGCGAGCTGCGCGTGACGTGATCCAGTGCCAGGGC
 CTGGCCGCGCCCGCGCGCCGCGCTCGGACCCCTACGTCAAAAGCTACCTCCTCCCGGATAAGCAGAGCA
 AGCGCAAGACGGCGGTGAAGAAACGGAATCTGAATCCGGTTTTCAACGAGACTCTCCGGTACTCCGTCCC
 GCAGGCCGAGCTTCAGGGCCGCGTGTGAGCCTGTCTGTGTGGCACCAGCGAAAGCCTGGGTCGAACATC
 TTTCTGGGCGAAGTTGAAGTGCCCTGGACAGCTGGGACTGGGGCTCTGAGCCCACCTGGCTCCCCTGC
 AGCCCCGGGTCCACCCCTCTCCGACGACCTTCCGAGCCGCGGGTTACTCGCCCTGTCCCTCAAGTACGT
 CCCCAGCGGCTCCGAGGGCGCAGGACTGCCCCGAGCGGGGAGCTGCATTCTGGGTGAAGGAGGCTCGG
 GACCTCTGCGCTGCGGCAGGATCCCTGGACACTTACGTACAATGCTTCGTGTGCTGATGACAGCC
 AGGCCAGCCGCCAGCGTACAAGGTTGTGCGACGAGCCTCAGCCCTGTGTTCAATCACACCATGGTGTA
 CGATGGCTTTGGGCTGTGACCTGCGCCAGGCTTGTGCCGAGCTCTCCCTCTGGGACCATGGGGCCCTG
 GCCAACCGCCAGCTGGGGGACACGCCTCAGCCTGGGCACCGGCAGCAGCTATGGGCTGCAGGTGCCCT
 GGATGGATTCCACACCTGAGGAGAAGCAGCTGTGGCAAGCCCTCCTGGAGCAGCCGTGCGAATGGGTGA
 TGCCCTTCTACCCCTCAGAACCAACCTGGCCCCCAGGACG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224850 representing NM_032872
 Red=Cloning site Green=Tags(s)

MPQRGHPSQEGLWALPSLPMAHGPKPETEGLLDLSFLTEEEQEAIAGVLQRDARLRQLEEGRVSKLRASV
 ADPGQLKILTGDFQEARSRHHNAHFSDLVASMRKKSTRGDQAPGHDREAEEAAVKEKEEGPEPRLT
 IDEAPQERLRETEASDPEEASQAQEDPGQGDQQVCAEEADPELEPASGGEQEP RPQAQTKAASQILENG
 EEAPGPDPSLDRMLSSSSSVSSLNSSTLSGSQMSLSGDAEAVQVRGVSVHFALHYEPGAAELRVHVIQCQG
 LAAARRRRSDPYVKSYPDPKQSKRKTAVKKRNLNPVFNETLRYVSPQAEQGRVLSLVWHRESLGRNI
 FLGEVEVPLDTWDWGSEPTWLPQPRVPPSPDDLPSRGLLALSLKYVPAGSEGAGLPPSGELHFWVKEAR
 DLLPLRAGSLDTYVQCFVLPDDSQASRQRTRVRRSLSPVFNHTMVDGFGPADLRQACAE LSLWDHGAL
 ANRQLGGTRL SLGTGSSYGLQVPWMDSTPEEKQLWQALLEQPCWVDGLLPLRTNLAPRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8044_f10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_032872

ORF Size: 1650 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032872.3](#)

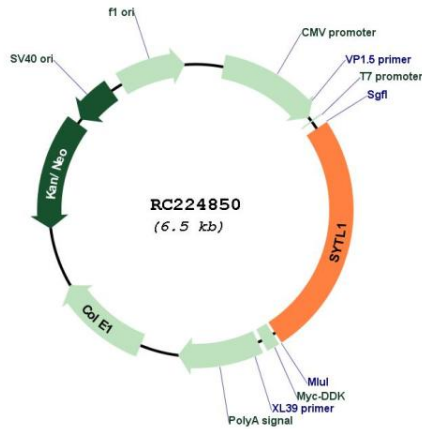
RefSeq Size: 1898 bp

RefSeq ORF: 1653 bp

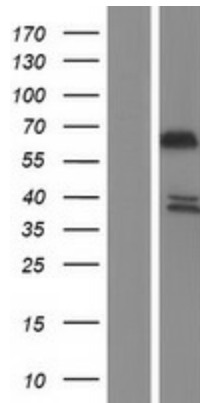
Locus ID: 84958

UniProt ID:	Q8IYJ3
Cytogenetics:	1p36.11
Domains:	C2
MW:	60.5 kDa
Gene Summary:	May play a role in vesicle trafficking (By similarity). Binds phosphatidylinositol 3,4,5-trisphosphate. Acts as a RAB27A effector protein and may play a role in cytotoxic granule exocytosis in lymphocytes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC224850



Western blot validation of overexpression lysate (Cat# [LY409905]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224850 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).