

Product datasheet for **RG224850**

SYTL1 (NM_032872) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYTL1 (NM_032872) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYTL1
Synonyms:	JFC1; SLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224850 representing NM_032872
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCCAGAGGGGCCACCCATCGCAAGAGGGGCTTTGGGCTCTGCCCTCCCTCCCCATGGCGCATGGGC
 CAAAGCCTGAGACTGAAGGACTGTTGGACCTCAGCTTCCTGACAGAGGAGGAGCAGGAGGCCATTGCTGG
 CGTCTCCAACGAGATGCCCCGCTGCGCAGCTGGAGGAGGGGCGGGTCAGCAAGCTCCGGGCTCAGTG
 GCAGACCTGGGAGCTGAAGATCCTGACAGGGGACTGGTTCAGGAAGCACGCTCCAGCGGCACCACA
 ATGCCCCACTTCGGCTCTGACCTTGTCCGAGCGTCTATGCGCAGGAAGAAGAGCACCAGGGGAGACCAGGC
 TCCAGGCCACGACAGGGAGGCTGAGGCTGCTGTAAAGAGAAGGAAGAGGGGCCAGAGCCCAGGCTCACC
 ATTGATGAGGCCCTCAGGAGAGGCTCAGGAGACTGAGGCTTCAGATCCTGAGGAGGCGTCCAGGCC
 AGGAAGATCCTGGCCAAGGAGACCAACAGGTCTGTGCCGAGGAGGCTGACCCGGAGCTGGAGCCCGCTC
 GGGGGGAGAGCAGGAGCCGCGGCCAGCAAGCCAGACCAAGGCCGCTCCAGATCCTGGAGAATGGG
 GAGGAGGCCCCGGGGCCGACCCCTCTCTCGACCGCATGCTCAGCAGCAGCTCCTCGGTGTCCAGCCTTA
 ACTCTCCACGCTGAGCGGCAGCCAGATGAGCCTGTGAGGCGACGCGGAGGCGGTGACAGTCCGCGGCTC
 CGTGCACTTCGCGCTGCACTACGAGCCGGGCGCCGCGAGCTGCGCGTGACGTGATCCAGTGCCAGGGC
 CTGGCCGCGCCCGGCGCGCGCTCGGACCCCTACGTCAAAAGCTACCTCCTCCCGGATAAGCAGAGCA
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 TTTCTGGGCGAAGTTGAAGTGCCCTGGACAGTGGGACTGGGGCTCTGAGCCCACCTGGCTCCCCCTGC
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 GACCTCTGCGCTGCGGCAGGATCCCTGGACACTTACGTACAATGCTTCGTGTGCTGATGACAGCC
 AGGCCAGCGCCAGCGTACAAGGTTGTGCGACGAGCCTCAGCCCTGTGTTCAATCACACCATGTTGTA
 CGATGGCTTTGGGCTGTGACCTGCGCCAGGCTTGTCGCGAGCTCTCCCTCTGGGACCATGGGGCCCTG
 GCCAACCGCCAGCTGGGGGACACGCCTCAGCCTGGGCACCGGCAGCAGCTATGGGCTGCAGGTGCCCT
 GGATGGATTCCACACCTGAGGAGAAGCAGCTGTGGCAAGCCCTCCTGGAGCAGCCGTGCGAATGGGTGGA
 TGGCTTCTACCCCTCAGAACCAACCTGGCCCCCAGGACG

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224850 representing NM_032872
 Red=Cloning site Green=Tags(s)

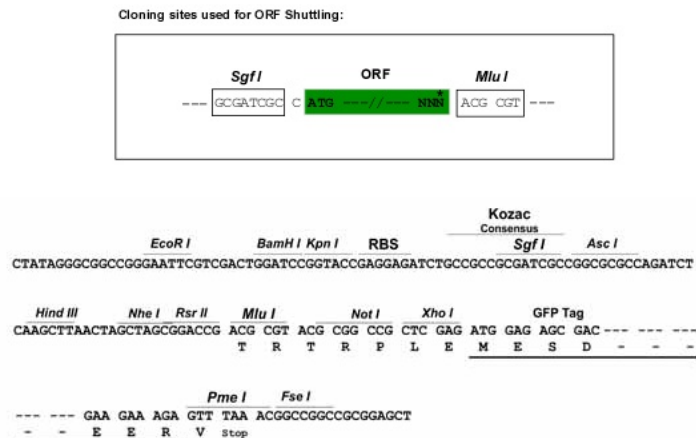
MPQRGHPSQEGLWALPSLPMAHGPKPETEGLLDLSFLTEEEQEAIAGVLQRDARLRQLEEGRVSKLRASV
 ADPGQLKILTDGWFQEARSQRHHNAHFSDLVASMRKKSTRGDQAPGHDREAEAAVKEKEEGPEPRLT
 IDEAPQERLRETEASDPEEASQAQEDPGQGDQQVCAEEADPELEPASGGEQEPQPQAQTKAASQILENG
 EEAPGPDPSLDRMLSSSSVSSLNSSTLSGSQMSLSGDAEAVQVRGSVHFALHYEPGAAELRVHVIQCQG
 LAAARRRRSDPYKSYLLPDKQSKRKTAVKRNLPVFNETLRYSVPAELQGRVLSVWHRESLGRNI
 FLGEVEVPLDWDWGSEPTWLPQPRVPPSPDDLPSRGLLALSLKYVPAGSEGAGLPPSGELHFVWKEAR
 DLLPLRAGSLDTYVQCFVLPDDSQASRQRTRVRRSLSPVFNHTMVYDGFADLRQACAEKSLWDHGAL
 ANRQLGGTRLSLGTGSSYGLQVPWMDSTPEEKQLWQALLEQPCEWVDGLLPLRTNLAPRT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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.

RefSeq: [NM_032872.3](#)

RefSeq Size: 1898 bp

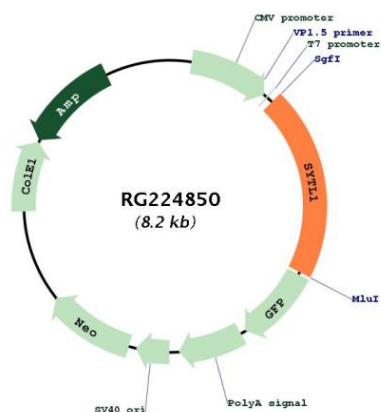
RefSeq ORF: 1653 bp

Locus ID: 84958

UniProt ID: [Q8IYJ3](#)

Cytogenetics:	1p36.11
Domains:	C2
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 RG224850