

Product datasheet for **MC222695**

Sytl2 (NM_001040085) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sytl2 (NM_001040085) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sytl2
Synonyms:	A1266830; mKIAA1597; Slp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222695 representing NM_001040085
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCGACTTAAGTTTCTGACAGAGGAGGAGCAAGACGCCATCTTAAGGTTCTGCAGAGGGATGCTG
 CCCTGAAGAGGGCTGAAGAGGAGAGAGTCAACATCTGCCTGAAAAAATTAAGGATGACCAACAATAAA
 GAATATGAGTGGCCAATGGTTTTATGAAGCTAAGGCAAAAAGACACAGGGACAAAATCCACGGTGTGAC
 ATCATCAGAGCATCCATGAGAAGGAAGAAGCTCCAGCGGCAGCTGAGCAGAATAAGGACACAGCAATGA
 GGGCAAAGGAGAGCTGGGTGAATAATGTTAACAAAGATGCTGTCTTCTCCAGAGATAGCTGTTGTGGA
 AGAGCCAGAAGATGACACAGATCCCGCAGGCCAAGTCCAGTTTGGTGGATCCAGCTTCCAGTGTGATT
 GATATGTCCAGAAAGTACGAGGACTCCAGCTGTGTCTGCCCCAAGCAAAGGAAGAATCCATTCAACA
 GCCCAAGCTGCCGAAGATCACTCCTTGAACAAACCAACCCGAGCAGTCAAAAAGTGGAAAAGCTGG
 TTTATTTAGATTTCAAAAGAGGGTGGATTGTGAGAATCAAAGAAAAGTCACTATCCAGATATGCCA
 CGTCAGCAGTTAGAGAAACCAAAGCAAACCTGTATCCACAGAGCCTGAAAAATGCGTCTCATACCAAAGCTC
 CAATCCCCAAAGCCAGAAAACCTGATCTACAAATCAAATGACTTAGAGAAAAGATGATAACCAAGTCTTTTCC
 CAGACAACGGAGGGACTCCCTGAATGCGAGAGGGGCTCCAAGAGGGATCCTAAAGCGCAACTCCAGTTCC
 AGCAGCACGGACTCAGAGACCCTCCGTTTAAATTAACAACCTTGATCCGAAAAGCAAAAATCCTATCACCTG
 GCCTAACCATCCACGAGAGAATCTCTGAGAAGGAATTTCTTTAGAAAGCAGACTCTTCCACAAGCTCACT
 AGAGCCGTTAAGCACGTGAGATTCTCTGCCGTGAAGAATGAGCTTCCACAAAGTCTAGACCCGTCCTT
 GGCCAGGAAGTGGGAGAAATTTACTGTTTTAGAACTGACCAGTTGCAAAAACCACTTTGTCTCATTATAGTGTG
 ACATAGAGGAGTTTCAGAATCACCCAGAGCTCTCCACAAAACACCTTTGTCTCATTATAGTGTGTC
 AAGCCCCAAGCGATTTCAGGAAGGGAAAGAGAACAGCTGATGTCTTCTGGGTCTGCTCCAAGAGATGAGATC
 CCTTGTCAATTCAGACATTCTACCCACAGACCTCAGTGTGTTGAGAGTTCATCCGTCATCAATGGGCAAC
 AAGAGAAATCATCACATTTTACAAAGCTTCCATCAGAATTGTCCAAAAGCCCTTCCGATGAACTGACTCA
 GTGTGGTGTGAGCCTGAGCCATCACAGACAGCAGACCACAGTTTTAGAGACCATCGGCAAGGTTCAGAAGAA
 GAGCACAGCCCTGTTTTGAAAACCTGGAAGAAGAGCTGCTAGGAAATGCTTCCAAAAGTCTAGAAG
 ACATTCATCAGATTCATCAAATCAAGCAAAAGTAGATAATCTGCCTGAAGAATTAGTGCATGAGTGTGA
 AGATGTTTCCACAGTGCCTTCACTGCCTGATAATCAGTTTTCCACCCTGACAAAACCTCAAAGGATGAGC
 AAGTCCGTGCCAGATTTCTTCAAGATGAGAGCGATGACAGAGAAACAGACACAGCATCAGAGAGCAGCT
 ACCAGCTCAGGAGATACAAGAAGAGCCCAGCTCATTAAACAATCTTAGCAGCTCCTCTGGCATGAGCTC
 CTTGTCTCTGCGAGTGGCAGTGTGATGAGCGTTTACAGTGGAGACTTTGGCAACCTAGAAGTGAAGGA
 AGCGTGCAGTTTGCCTCGACTACGTGGAGTCCCTGAAAGAGCTGCATGTGTTTGTGGCCAGTGTAAAGG
 ATTTAGCAGCAGCAGATGTTAAGAAACAGCGCTCAGATCCGATGTAAAGACCTATCTGCTACCAGACAA
 AGGCAAAATGGGCAAGAAGAAGACACTCGTAGTGAAGAAGACCTGAATCCTGTATACAACGAGATATTG
 CGGTATAAAATGAAAGGCAATCTTAAAGACGCAAGTGAACCTGTCCGTTTGGCATCGGGATACAT
 TTAAGCGCAACAGCTTTCTGGGGAGGTGGAGCTCGACCTGGAACGTGGGATTGGGACAGCAAAACAGAA
 CAAACAGCTGAAGTGGTACCCACTGAAGAGGAAGACAGCACCAGTTGCCCTCGAGACAGAAAACAGAGGT
 GAAATGAAACTAGCTCTCCAGTATGTTCCGGAACCAAGCCTGGCAAAAAGCTTCTACAACCTGGAGAAG
 TCCACATCTGGGTGAAGGAATGCCTTGACCTCCCACTGTTGAGGGGCAGCCACCTAAATCTTTTGTAA
 ATGTACCATCCTTCCAGATACCAGTAGAAAAAGTCCGCAAGACAAGAGCTGTAGGGAAAAACCAAC
 CCCGTCTTCAACCATACCATGGTGTATGATGGGTTCAGGCCTGAAGATCTGATGGAAGCCTGTGTAGAAC
 TCACAGTCTGGGACATTATAAACTAACCAACAGTTTCTGGGAGGTCTCCGGATCGGCTTTGGAACAGG
 AAAAGCTACGGGACTGAAGTGGATTGGATGGATTCTACTCTGAGGAAGTTGCTCTCTGGGAGAAGATG
 GTAACCTCTCCCAACACTGGGTTGAAGCGACGCTGCCCTCCGGATGCTTCTGATTGCCAAGCTTTCCA
 AGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN:	NM_001040085
Insert Size:	2805 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001040085.2</u> , <u>NP_001035174.1</u>
RefSeq Size:	4731 bp
RefSeq ORF:	2805 bp
Locus ID:	83671
UniProt ID:	<u>Q99N50</u>
Cytogenetics:	7 E1
Gene Summary:	<p>Isoform 11 acts as a RAB27A effector protein and plays a role in cytotoxic granule exocytosis in lymphocytes. Required for cytotoxic granule docking at the immunologic synapse. Isoform 1 may play a role in melanosome transport and vesicle trafficking. It controls melanosome distribution in the cell periphery and regulates melanocyte morphology. Isoform 1 acts as a positive mediator of mucus secretion by the surface mucus cells of the stomach. Mediates basal mucus secretion by gastric surface cells by promoting the proper granule biogenesis and docking of mucus granules with the apical plasma membrane.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 6, resulting in an isoform (2, also known as Slp2-a delta 2S-II) that is shorter than isoform 6.</p>