

Product datasheet for **MC222540**

Sytl2 (NM_031394) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sytl2 (NM_031394) 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: >MC222540 representing NM_031394
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGATCGACTTAAGTTTCTGACAGAGGAGGAGCAAGACGCCATCTTAAAGTTCTGCAGAGGGATGCTG
 CCCTGAAGAGGGCTGAAGAGGAGAGAGTCAACATCTGCCTGAAAAAATTAAGGATGACCAACAATAAA
 GAATATGAGTGGCCAATGGTTTTATGAAGCTAAGGCAAAAAGACACAGGGACAAAATCCACGGTGTGAC
 ATCATCAGAGCATCCATGAGAAGGAAGAAGCTCCAGCGGCAGCTGAGCAGAATAAGGACACAGCAATGA
 GGGCAAAGGAGAGCTGGGTGAATAATGTTAACAAAGATGCTGTCTTCTCCAGAGATAGCTGTTGTGGA
 AGAGCCAGAAGATGACACAGATCCCGCAGGCCAAGTTCCAGTTTGGTGGATCCAGCTTCCAGTGTGATT
 GATATGTCCAGGAAAGTACGAGGACTCCAGCTGTGTCTCTGCCAAGCAAAGGAAGAATCCATTCAACA
 GCCCAAGCTGCCGAAGATCACTCCTTGAACAAACCAACCCGAGCAGTCAAAAAGTGGAAAAGCTGG
 TTTATTTAGATTTCAAAAGAGGGTGTGTTGTGAGAATCAAAGAAAAGTCACTATCCAGATATGCCA
 CGTCAGCAGTTAGAGAAAACCAAGCAAACCTGTATCCACAGAGCCTGAAAAATGCGTCTCATACCAAAGCTC
 CAATCCCCAAAGCCAGAAAACCTGATCTACAAATCAAATGACTTAGAGAAAAGATGATAACCAAGTCTTTTCC
 CAGACAACGGAGGGACTCCCTGAATGCGAGAGGGGCTCCAAGAGGGATCCTAAAGCGCAACTCCAGTTCC
 AGCAGCACGGACTCAGAGACCCTCCGTTTAAATTAACAACCTTGATCCGAAAAGCAAAAATCCTATCACCTG
 GCCTAACCATCCACGAGAGAATCTCTGAGAAGGAATTTCTTTAGAAAGCAGACTCTTCCACAAGCTCACT
 AGAGCCGTTAAGCACGTGAGATTCTCTGCCGTGAAGAATGAGCTTCCACAAAGTCTAGACCCGTCCTT
 GGCCAGGAAGTGGGAGAAATTTACTGTTTGAATCTGACCAGTTGCAAAAAGTGAAGTGAAGTGCAGGGG
 ACATAGAGGAGTTTCAAGATCACCCAGAGCTCTCCACAAAACACCTTTGTCTCATTATCAGTTAGTGTC
 AAGCCCAAGCGATTCAGGAAGGGAAAGAGAACAGCTGATGTCTTCTGGGTCTGCTCAAGAGATGAGATC
 CCTTGTCAATTCAGACATTCTACCCACAGACCTCAGTGTGTTGAGAGTTCATCCGTCATCAATGGGAAC
 AAGAGAAATCATCACATTTTACAAAGCTTCCATCAGAATTGTCCAAAAGCCCTTCCGATGAACTGACTCA
 GTGTGGTGTGAGCCTGAGCCATCACAGACAGCAGACCACAGTTTTAGAGACCATCGGCAAGGTTCAGAAGAA
 GAGCACAGCCCTGTTTTGAAAACCTGGAAGAAGAGCTGCTAGGAAATGCCTTCCAAAAGTCTAGAAG
 ACATTCATCAGATTCATCAAATCAAGCAAAAGTAGATAATCTGCCTGAAGAATTAGTGCAGTGTGCTGA
 AGATGATCAAAAAGCCGACCAAGAACCAGATACAATGAATGTATACCAGGAATTTCCACAGTGCCTTCA
 CTGCCTGATAATCAGTTTTCCACCCTGACAAACTCAAAGGATGAGCAAGTCCGTGCCAGCATTCTTTC
 AAGATGAGGCGAGTGGCAGTGTGATGAGCGTTTACAGTGGAGACTTTGGCAACCTAGAAGTGAAGGAAG
 CGTGCAGTTTGCCTCGACTACGTGGAGTCCCTGAAAGAGCTGCATGTGTTTGTGGCCAGTGTAAAGGAT
 TTAGCAGCAGCAGATGTTAAGAAACAGCGCTCAGATCCGTATGTAAGACCTATCTGCTACCAGACAAAAG
 GCAAAAATGGGCAAGAAGAAGACACTCGTAGTGAAGAAGACCTTGAATCCTGTATACAACGAGATATTGCG
 GTATAAAATGAAAGGCAATCTTAAAGACGCAGAAGTTGAACCTGTCCGTTTGGCATCGGGATACATTT
 AAGCGCAACAGCTTTCTGGGGGAGGTGGAGCTCGACCTGGAAACGTGGGATTGGGACAGCAAAACAGAA
 AACAGCTGAAGTGGTACCACTGAAGAGGAAGACAGCACCAGTTGCCCTCGAGACAGAAAACAGAGGTGA
 AATGAAACTAGCTCTCCAGTATGTTCCGGAACCAAGCCCTGGCAAAAAGCTTCTACAACCTGGAGAAGT
 CACATCTGGGTGAAGGAATGCCTTGACCTCCCACTGTTGAGGGGACCCACCTAAATCTTTTGTAAAT
 GTACCATCCTTCCAGATACCAGTAGAAAAAGTCCGCAAGACAAGAGCTGTAGGAAAACCAACCAACCC
 CGTCTTCAACCATACCATGGTGTATGATGGGTTGAGGCTGAAGATCTGATGGAAGCCTGTGTAGAACTC
 ACAGTCTGGGACCATTATAAACTAACCAACCAAGTTTCTGGGAGGTCTCCGGATCGGCTTTGGAACAGGAA
 AAAGCTACGGGACTGAAGTGGATTGGATGGATTCTACTTCTGAGGAAGTTGCTCTCTGGGAGAAGATGGT
 AAATCTCCCAACTTGGGTTGAAGCGACGCTGCCCTCCGGATGCTTCTGATTGCCAAGCTTTCCAAG
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_031394
Insert Size:	2733 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:	NM_031394.3 , NP_113571.2
RefSeq Size:	4659 bp
RefSeq ORF:	2733 bp
Locus ID:	83671
UniProt ID:	Q99N50
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 (3) lacks an alternate in-frame exon in the central coding region, compared to variant 6, resulting in an isoform (3, also known as Slp2-a delta 2S-III) that is shorter than isoform 6.</p>