

Product datasheet for **MC227069**

Sytl2 (NM_001289585) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sytl2 (NM_001289585) 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
Fully Sequenced ORF: >MC227069 representing NM_001289585
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGTCCTTGCTCTGCGAGTGGCAGTGTGATGAGCGTTTACAGTGGAGACTTTGGCAACCTAGAAG
 TGAAGGAAGCGTGCAGTTTGCCTCGACTACGTGGAGTCCCTGAAAGAGCTGCATGTGTTTGTGGCCCA
 GTGTAAGGATTTAGCAGCAGCAGATGTTAAGAAACAGCGCTCAGATCCGTATGTAAGACCTATCTGCTA
 CCAGACAAAGGCAAAATGGGCAAGAAGAAGACACTCGTAGTGAAGAAGACCTTGAATCCTGTATACAACG
 AGATATTGCGGTATAAAATTGAAAGCAATTCTTAAAGACGCAGAAAGTTGAACCTGTCCGTTTGGCATCG
 GGATACATTTAAGCGCAACAGCTTTCTGGGGGAGGTGGAGCTCGACCTGGAAACGTGGGATTGGGACAGC
 AAACAGAACAAACAGCTGAAGTGGTACCCACTGAAGAGGAAGACAGCACCAGTTGCCCTCGAGACAGAAA
 ACAGAGGTGAAATGAAACTAGCTCTCCAGTATGTTCCGGAACCAAGCCCTGGCAAAAAGCTTCTACAAC
 TGGAGAAGTCCACATCTGGGTGAAGGAATGCCTTGACCTCCACTGTTGAGGGGCAGCCACCTAAATTCT
 TTTGTTAAATGTACCATCCTTCCAGATACCAGTAGAAAAAGTCCGAGAAGACAAGAGCTGTAGGGAAAA
 CCACCAACCCCGTCTTCAACCATACCATGGTGTATGATGGTTCAGGCCTGAAGATCTGATGGAAGCCTG
 TGTAGAAGTACAGTCTGGGACCATTATAAACTAACCAACAGTTTCTGGGAGGTCTCCGGATCGGCTTT
 GGAACAGGAAAAAGCTACGGGACTGAAGTGGATTGGATGGATTCTACTTCTGAGGAAGTTGCTCTCTGGG
 AGAAGATGGTAAACTCTCCCAACTTTGGGTTGAAGCGACGCTGCCCTCCGGATGCTTCTGATTGCCAA
 GCTTTCCAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001289585



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Insert Size:	993 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001289585.1</u> , <u>NP_001276514.1</u>
RefSeq Size:	3031 bp
RefSeq ORF:	993 bp
Locus ID:	83671
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 (8) lacks several 5' exons but contains an alternate 5' exon, it includes an additional internal exon, and it thus differs in its 5' UTR, lacks a portion of the 5' coding region, and initiates translation from a downstream in-frame start codon, compared to variant 6. The encoded isoform (8) is shorter at the N-terminus, compared to isoform 6.</p>