

## Product datasheet for **MC227366**

### Sytl2 (NM\_001289586) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sytl2 (NM\_001289586) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Sytl2  
**Synonyms:** AI266830; mKIAA1597; Slp2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227366 representing NM\_001289586  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAAGTCCGTGCCAGCATTTCTTCAAGATGAGAGCGATGACAGAGAAACAGACACAGCATCAGAGA  
 GCAGCTACCAGCTCAGGAGATACAAGAAGACCCAGCTCATTAAACCAATCTTAGCAGCTCCTCTGGCAT  
 GACGTCCTTGCTCTGCGAGTGGCAGTGTGATGAGCGTTTACAGTGGAGACTTTGGCAACCTAGAAGTG  
 AAAGGAAGCGTGCAGTTTGCACCTCGACTACGTGGAGTCCCTGAAAGAGCTGCATGTGTTGTGGCCAGT  
 GTAAGGATTTAGCAGCAGCAGATGTTAAGAAACAGCGCTCAGATCCGTATGTAAGACCTATCTGCTACC  
 AGACAAAGGCAAAATGGGCAAGAAGAAGACACTCGTAGTGAAGAAGACCTTGAATCCTGTATACAACGAG  
 ATATTGCGGTATAAAATTGAAAGGCAATTCTTAAAGACGCAGAAGTTGAACCTGTCCGTTTGGCATCGGG  
 ATACATTTAAGCGCAACAGCTTTCTGGGGAGGTGGAGCTCGACCTGGAAACGTGGGATTGGGACAGCAA  
 ACAGAACAAACAGCTGAAGTGGTACCCACTGAAGAGGAAGACAGCACCAGTTGCCCTCGAGACAGAAAAC  
 AGAGGTGAAATGAACTAGCTCTCCAGTATGTTCCGGAACCAAGCCCTGGCAAAAAGCTTCTACAACCTG  
 GAGAAGTCCACATCTGGGTGAAGGAATGCCTTGACCTCCACTGTTGAGGGGCAGCCACCTAAATTCCTT  
 TGTTAAATGTACCATCCTTCCAGATACCCAGTAGAAAAAGTCGCCAGAAGACAAGAGCTGTAGGGAAAAC  
 ACCAACCCCGTCTTCAACCATACCATGGTGTATGATGGGTTGAGGCTGAAGATCTGATGGAAGCCTGTG  
 TAGAACTCACAGTCTGGGACATTATAAACTAACCAACCAGTTTCTGGGAGGTCTCCGGATCGGCTTTGG  
 AACAGGAAAAAGCTACGGGACTGAAGTGGATTGGATGGATTCTACTTCTGAGGAAGTTGCTCTGGGAG  
 AAGATGGTAAACTCTCCAACACTTGGGTTGAAGCGACGCTGCCCTCCGGATGCTTCTGATTGCCAAGC  
 TTTCCAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001289586
<b>Insert Size:</b>	1131 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001289586.1, NP_001276515.1</u>
<b>RefSeq Size:</b>	2986 bp
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	83671
<b>UniProt ID:</b>	<u>Q99N50</u>
<b>Cytogenetics:</b>	7 E1
<b>Gene Summary:</b>	<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 (9) lacks several 5' exons but contains an alternate 5' 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 (4, also known as Slp2-c) is shorter at the N-terminus, compared to isoform 6. Both variants 4 and 9 encode isoform 4.</p>