

## Product datasheet for **MC229180**

### Sytl2 (NM\_001289584) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sytl2 (NM_001289584) 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: >MC229180 representing NM\_001289584  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATCGACTTAAGTTTCTGACAGAGGAGGAGCAAGACGCCATCTTAAAGTTCTGCAGAGGGATGCTG  
 CCCTGAAGAGGGCTGAAGAGGAGAGAGTACAGACATCTGCCTGAAAAAATTAAGGATGACCAACAATAAA  
 GAATATGAGTGGCCAATGGTTTTATGAAGCTAAGGCAAAAAGACACAGGGACAAAATCCACGGTGTGAC  
 ATCATCAGAGCATCCATGAGAAGGAAGAAGCTCCACGCGCAGAGATAGCTGTTGTGGAAGAGCCAGAAG  
 ATGACACAGATCCCGCAGGCCAAGTCCAGTTTGGTGGATCCAGCTTCCAGTGTGATTGATATGTCCCA  
 GGAAAGTACGAGGACTCCAGCTGTGTCTCTGCCAAGCAAAGGAAGAATCCATTCAACAGCCCCAAGCTG  
 CCGGAAGATCACTCCTTGCAACAAACAAACCCGAGCAGTCAAAAAGCTGGAAAAGCTGGTTTATTTTCA  
 TTTCAAAAGAGGGTGAGTTGTGAGAATCAAAGAAAAGTCACTATCCCAGATATGCCACGTGAGCAGTT  
 AGAGAAAACAAAGCAAAGTGTATCCACAGAGCCTGAAAAATGCGTCTCATACCAAAGCTCCAATCCCCAA  
 GCCAGAAAAGTGTACTACAAATCAAATGACTTAGAGAAAAGATGATAACAGTCTTTTCCCAGACAACGGA  
 GGGACTCCCTGAATGCGAGAGGGGCTCCAAGAGGGATCCTAAAGCGCAACTCCAGTTCCAGCAGCACGGA  
 CTCAGAGACCCTCCGTTTAAATTACAACCTTGATCCGAAAAGCAAATCCTATCACCTGGCCTAACCATC  
 CACGAGAGAATCTCTGAGAAGGAATTTCTTTAGAAAGCAGACTCTCCACAAGCTCACTAGAGCCGTTAA  
 AGCACGTGAGATTCTCTGCCGTGAAGAATGAGCTTCCACAAGTCTAGACCCGCTCTGGCCAGGAAGT  
 GGGAGAATTTACTGTTTTAGAACTGACCAGTTGCAAAATGGAAGTGAAGATGCAGGGGACATAGAGGAG  
 TTTCAGAATCACCCAGAGCTCTCCACAAAACACCTTTGTCTCATTATCAGTTAGTGTCAAGCCCAAGCG  
 ATTCAGGAAGGGAAAGAGAACAGCTGATGCTTCTGGGTCTGCTCAAGAGATGAGATCCCTTGTCAATC  
 AGACATTTACCCACAGGACCTCAGTGTGTTGAGAGTTTCCGTCATCAATGGGCAACAAGAGAAATCA  
 TCACATTTTACAAGCTTCCATCAGAATTGTCCAAAAGCCCTTCCGATGAACTGACTCAGTGTGGTGA  
 CTGAGCCATCACAGACAGCAGACCACAGTTTTAGAGACCATCGGCAAGGTTCAGAAGAAGAGCACAGCCC  
 TGTTTTGAAAAGTCTGGAAGAAGAGCTGCTAGGAAATGCTTCCAAAAGTCTAGAAGACATTCATCA  
 GATTCATCAAATCAAGCAAAAGTAGATAATCTGCCTGAAGAATTAGTGCAGTGTGCTGAAGATGATCAA  
 AAGCCGACCAAGAACCAGATACAAATGAATGTATACCAGGAATTTCCACAGTGCCTTCACTGCCTGATA  
 TCAGTTTTCCACCTGACAACTCAAAGGATGAGCAAGTCCGTGCCAGCATTCTTCAAGATGAGAGC  
 GATGACAGAGAAACAGACACAGCATCAGAGAGCAGCTACCAGCTCAGGAGATACAAGAAGAGCCCCAGCT  
 CATTAAACCAATCTTAGCAGCTCCTCTGGCATGAGTCTTGTCTCTGCGAGTGGCAGTGTGATGAGCGT  
 TTACAGTGGAGACTTTGGCAACCTAGAAGTGAAGGAAGCGTGCAGTTTGCCTGACTCAGTGGAGTCC  
 CTGAAAGAGCTGCATGTGTTTGTGGCCAGTGTAAAGATTTAGCAGCAGCAGATGTTAAGAAACAGCGCT  
 CAGATCCGTATGTAAGACCTATCTGCTACCAGACAAAGGCAAAATGGGCAAGAAGAAGACACTCGTAGT  
 GAAGAAGACCTTGAATCCTGTATACAACGAGATATTGCGGTATAAAATGAAAGGCAATCTTAAAGACG  
 CAGAAGTTGAACCTGTCCGTTTGGCATCGGGATACATTTAAGCGCAACAGCTTTCTGGGGAGGTGGAGC  
 TCGACCTGGAAACGTGGGATTGGGACAGCAAACAGAAACAGCTGAAGTGGTACCCACTGAAGAGGAA  
 GACAGACCCAGTTGCCCTCGAGACAGAAAACAGAGGTGAAATGAAACTAGCTCTCCAGTATGTTCCGGAA  
 CCAAGCCCTGGCAAAAAGCTTCTTACAAGTGGAGAAGTCCACATCTGGGTGAAGGAATGCCTTGACCTCC  
 CACTGTTGAGGGGAGCCACCTAAATCTTTTGTAAATGTACCATCCTTCCAGATACCAGTAGAAAAAG  
 TCGCCAGAAGACAAGAGCTGTAGGGAAAACCAACCCCGTCTTCAACCATACCATGGTGTATGATGGG  
 TTCAGGCCTGAAGATCTGATGGAAGCCTGTGTAGAAGTACAGTCTGGGACCATTATAAACTAACCAACC  
 AGTTTCTGGGAGGTCTCCGGATCGGCTTTGGAACAGGAAAAAGTACGGGACTGAAGTGGATTGGATGGA  
 TTCTACTTCTGAGGAAGTTGCTCTCTGGGAGAAGATGGTAACTCTCCCAACTTGGGTTGAAGCGACG  
 CTGCCCTCCGGATGCTTCTGATTGCCAAGCTTTCCAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

<b>ACCN:</b>	NM_001289584
<b>Insert Size:</b>	2772 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><a href="#">NM_001289584.1</a></u> , <u><a href="#">NP_001276513.1</a></u>
<b>RefSeq Size:</b>	4698 bp
<b>RefSeq ORF:</b>	2772 bp
<b>Locus ID:</b>	83671
<b>UniProt ID:</b>	<u><a href="#">Q99N50</a></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 (7) uses an alternate in-frame splice site in the 5' coding region, compared to variant 6, resulting in an isoform (7, also known as Slp2-a delta 2S-I) that is shorter than isoform 6.</p>