

Product datasheet for **MR229280**

Sytl2 (NM_001289585) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sytl2 (NM_001289585) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sytl2
Synonyms: A1266830; mKIAA1597; Slp2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229280 representing NM_001289585
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACGTCCTTGCTCTGCGAGTGGCAGTGTGATGAGCGTTTACAGTGGAGACTTTGGCAACCTAGAAG
TAAAAGGAAGCGTGCAGTTTGCCTCGACTACGTGGAGTCCCTGAAAGAGCTGCATGTGTTGTGGCCCA
GTGTAAGGATTTAGCAGCAGCAGATGTTAAGAAACAGCGCTCAGATCCGTATGTAAGACCTATCTGCTA
CCAGACAAAGGCAAAATGGGCAAGAAGAAGACACTCGTAGTGAAGAAGACCTTGAATCCTGTATACAACG
AGATATTGCGGTATAAAATTGAAAGCAATTCTTAAAGACGCAGAAAGTTGAACCTGTCCGTTTGGCATCG
GGATACATTTAAGCGCAACAGCTTTCTGGGGGAGGTGGAGCTCGACCTGGAAACGTGGGATTGGGACAGC
AAACAGAACAAACAGCTGAAGTGGTACCCACTGAAGAGGAAGACAGCACCAGTTGCCCTCGAGACAGAAA
ACAGAGGTGAAATGAAACTAGCTCTCCAGTATGTTCCGGAACCAAGCCCTGGCAAAAAGCTTCTACAAC
TGGAGAAGTCCACATCTGGGTGAAGGAATGCCTTGACCTCCACTGTTGAGGGGCAGCCACCTAAATTCT
TTTGTTAAATGTACCATCCTTCCAGATACCAGTAGAAAAAGTCCGAGAAGACAAGAGCTGTAGGGAAAA
CCACCAACCCCGTCTTCAACCATACCATGGTGTATGATGGGTTCCAGCCCTGAAGATCTGATGGAAGCCTG
TGTAGAAGTACAGTCTGGGACCATTATAAACTAACCAACAGTTTCTGGGAGGTCTCCGGATCGGCTTT
GGAACAGGAAAAAGCTACGGGACTGAAGTGGATTGGATGGATTCTACTTCTGAGGAAGTTGCTCTCTGGG
AGAAGATGGTAAACTCTCCCAACTTTGGGTTGAAGCGACGCTGCCCTCCGGATGCTTCTGATTGCCAA
GCTTTCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229280 representing NM_001289585
 Red=Cloning site Green=Tags(s)

MTSLSSASGSVMSVYSGDFGNLEVKGSVQFALDYVESLKELVHVAQCKDLAAADVKKQRSDPYVKTYLL
 PDKGKMGKKKTLVVKKTLNVPVNEILRYKIERQFLKTQKLNLSVWHRDTFKRNSFLGEVELDLETWDWDS
 KQNKQLKWWYPLKRKTAPVALETENRGEMKALQYVPEPSGKKLPTTGEVHIWVKECLDLPLLRGSHLNS
 FVKCTILPDTSRKSRQKTRAVGKTTNPVFNHTMVYDGFPEDLMEACVELTVWDHYKLTNQFLGGLRIGF
 GTGKSYGTEVDWMDSTSEEVALWEKMNPNTPWVEATLPLRMLLIAKLSK

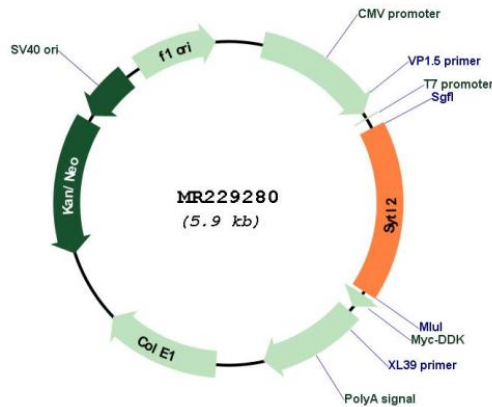
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289585

ORF Size: 990 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001289585.1 , NP_001276514.1
RefSeq Size:	3031 bp
RefSeq ORF:	993 bp
Locus ID:	83671
Cytogenetics:	7 E1
MW:	38.2 kDa
Gene Summary:	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]