

Product datasheet for **MR216915**

Sytl2 (NM_001040088) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sytl2 (NM_001040088) 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



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ORF Nucleotide
Sequence:

>MR216915 representing NM_001040088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCGACTTAAGTTTCTGACAGAGGAGGAGCAAGACGCCATCTTAAGGTTCTGACAGGGATGCTG
 CCCTGAAGAGGGCTGAAGAGGAGAGAGTACACATCTGCCTGAAAAATTAAGGATGACCAACAATAAA
 GAATATGAGTGGCCAATGGTTTTATGAAGCTAAGGCAAAAAGACACAGGGACAAAATCCACGGTGTGAC
 ATCATCAGAGCATCCATGAGAAGGAAGAAGCTCCAGCGGCAGCTGAGCAGAATAAGGACACAGCAATGA
 GGGCAAAGGAGAGCTGGGTGAATAATGTTAACAAAGATGCTGTCTTCTCCAGAGATAGCTGTTGTGGA
 AGAGCCAGAAGATGACACAGATCCCGCAGGCCAAGTCCAGTTTGGTGGATCCAGCTTCCAGTGTGATT
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 GCCCAAGCTGCCGAAGATCACTCCTTGCAACAAACCAACCCGAGCAGTCAAAAAGTGGAAAAGCTGG
 TTTATTTAGATTTCAAAGAGGGTGAAGTTGTGAGAATCAAAGAAAAGTCACTATCCAGATATGCCA
 CGTCAGCAGTTAGAGAAACCAAAGCAAACCTGTATCCACAGAGCCTGAAAAATGCGTCTCATACCAAAGCTC
 CAATCCCCAAAGCCAGAAAACCTGATCTACAATCAAATGACTTAGAGAAAAGATGATAACCAAGTCTTTTCC
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 AGCAGCACGGACTCAGAGACCCTCCGTTTAAATTAACAACCTTGATCCGAAAAGCAAAAATCCTATCACCTG
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216915 representing NM_001040088
 Red=Cloning site Green=Tags(s)

MIDL SFLTEEEQDAILKVLQRDAALKRAEEERVRLPEKIKDDQQLKNMSGQWFYEAKAKRHRDKIHGAD
 IIRASMRKRLPAAAEQNKDTAMRAKESWVNNVKNDAVLPPEIAVVEEPEDDTPAGPSSSLVDPASSVI
 DMSQESTRTPAVSLPKQRKNPFNSPKLPEDHSLQQTKEQSKTGKAGLFQISKEGELSESKEKSSIPDMP
 RQQLLEKPKQTVSTEPENASHTKAPIKARKLIYKSNLEKDDNQSFPRQRDSL NARGAPRGILKRNSSS
 SSTDSETLRLNLYNLDPKSKILSPGLTIHERISEKEFSLEDDSSSLEPLKHVRFSAVKNELPQSPRPVL
 GQEVGEFTVLESQQLQNGTEDAGDIEEFQNHPELSHKTPLSHYQLVSSPDSGREREQLMSSGSAPRDEI
 PCHSDILPTGPQCVESVINGQQEKSSHFTKLPSSELSKSPSDEL TQCGEPEPSQTADHSFRDHRQGSEE
 EHSPVLKTLERRAARKLPSKSLEDIPSSSNQAKVDNLPEELVRS AEDDQKADQEPDTNECIPGISTVPS
 LPDNQFSHPDKLKRMSKSVPAFLQDEASGSMVSYSGDFGNLEVKGSVQFALDYVESLKLHVFAQCKD
 LAAADVKKQRSDPYVKTLLPDKGKMGKKKTLVVKKTLNPVYNEILRYKIERQFLKTQKLNLSVWHRDTF
 KRNSFLGEVELDLETWDWDSKQNKQLKWYPLKRKTAPVALETENRGMKLLALQYVPEPSGKKLPTTGEV
 HIWVKECLDLLLRGSHLNSFVKCTILPDSRKSQRKTRAVGKTTNPVFNHTMVYDGF RPEDLMEACVEL
 TVWDHYKLTNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWEKMNVPNTWVEATLPLRMLLI AKLSK

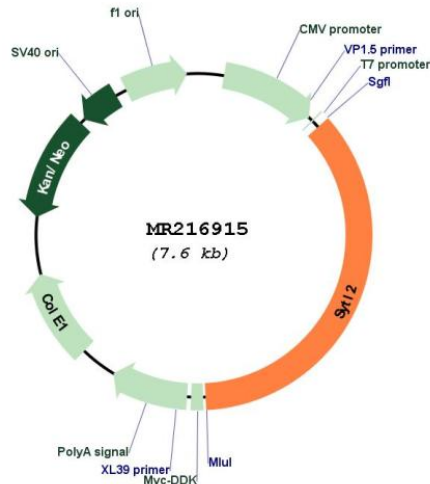
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001040088

ORF Size: 2730 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:

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 Size: 2586 bp

RefSeq ORF: 1011 bp

Locus ID: 83671

UniProt ID: [Q99N50](#)

Cytogenetics: 7 E1

MW: 38.9 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]