

## Product datasheet for MR206275

### Stoml1 (NM\_026942) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stoml1 (NM_026942) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stoml1
Synonyms:	1810015E19Rik; AI847431; SLP1; STORP; UNC24; WPB72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206275 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTGGAAAGTCTGGCTACCGGGCACTGCCCTTAGGGGATTTGATCGTTTCCAGCAGTCGAGCTTCG  
GCTTTCTGGTTCGCAGAAGGGCTGCTTGTCCCCAGAGCCGGGCAGCGTGGGGCCGGGGCCGACGCGCC  
GGAGAGCTGGCCCTCCTGTCTGCCATGGCCTCGTCAGTGTCTGGGGTCTTGCTGCTGCTGCTCACC  
TTCCCCATTTCCGGCTGGTTTGTCTGAAGATTGTGCCACCTATGAGAGGATGATTGTGTTTCGACTGG  
GCCGGATCCGTAACCCCAAGGGCCTGGCATGGTCTTCTCCTGCCCTTATTGACTCCTCCAGAGGGT  
AGATTTGAGACCCGAGCCTTCAACGTTCTCCTTGCAAGCTGGCCTCTAAGGATGGGGCTGTGCTGTGC  
GTGGGAGCTGATGTCCAGTTCGCATCTGGGACCCAGTGTATCCGTGATGGCTGTGAAGGACCTGAACA  
CAGCTACTCGCATGACAGCCACAACGCCATGACTAAGGCCCTGCTCAGAAGGCCACTGCAGGAGATCCA  
GATGGAGAAGCTCAAGATCGGTGACCAGCTCCTGCTGGAGATCAATGACGTGACCAGAGCTTGGGGACTG  
GAGGTCGACCGTGTAGAGCTGGCAGTAGAGGCTGTGTTGCAGCCACCGAAGACAGCCTGACTGTGCCCA  
GCCTGGACAGCACCTCCAACAGCTGGCCCTCCACTTGCTAGGGGGAAGTATGAAGTGAACCTCCTGCCTCTTGTGG  
GCCGGGCTGAGCCAGCCGAAGCAGCCGCTGGCTGAGGGGCTCCTCACAGCCCTGCAACCCCTCCTGT  
CAGAGGCACTGGTCAGCCAGTTGGGGCCTGCTACCAGTTCAATGTCATCTTGCCAGTGGCACCCAGAG  
TATCTACTTCTGGACCTTACTACAGGACAAGGCCGCTGGGACATGGAGAGCCTGATGGCATCCCTGAC  
GTGGTGGTGGAGATGGCTGAAGCAGACTTGACGGCCTTGTGAGCAAAGAATTCGGCCCTTGGGGCCCT  
ACATGAGTGGGCGGTGAAGGTGAAGGGTACCTGGCCGTGGTCATGAAGCTGGAGGCTGTACTCAAGGC  
CTTGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206275 protein sequence  
 Red=Cloning site Green=Tags(s)

MLGRSGYRALPLGDFDRFQQSSFGFLGSQKGCLSPEPGSVGPGADAPESWPSCLCHGLVSVLGFLLLLLLT  
 FPIISGWFALKIVPTYERMIVFRLGRIRNPQGGMVLLLPFIDSFQRVDLRTAFNVPPCKLASKDGAVLS  
 VGADVQFRIWDPVLSVMAVKDLNTATRMTAHNAMTKALLRRPLQEIQMEKLIKIGDQLLEINDVTRAWGL  
 EVDRVELAVEAVLQPPQDSLTVPSLDSTLQQLALHLLGGSMNSAVGRVPSPGPDTLEMINEVEPPASLAG  
 AGAEPSPKQPVAEGLLTALQPFLSEALVSQVGACYQFNVILPSGTQSIYFLDLTTGQGRVGHGEPDGIIPD  
 VVEMAEADLQALLSKELRPLGAYMSGRLKVKGDLAVVMKLEAVLKALK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_026942

**ORF Size:** 1200 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:** [NM\\_026942.2](#), [NM\\_026942.3](#), [NP\\_081218.2](#)

**RefSeq Size:** 2004 bp

**RefSeq ORF:** 1200 bp

**Locus ID:** 69106

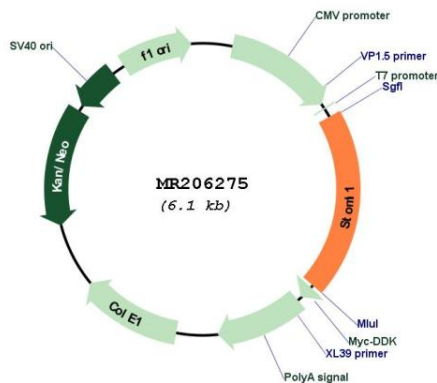
**UniProt ID:** [Q8CI66](#)

**Cytogenetics:** 9 B

**MW:** 42.9 kDa

**Gene Summary:** May play a role in cholesterol transfer to late endosomes (By similarity). May play a role in modulating membrane acid-sensing ion channels. Can specifically inhibit proton-gated current of ASIC1 isoform 1. Can increase inactivation speed of ASIC3. May be involved in regulation of proton sensing in dorsal root ganglions (PubMed:24247984).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206275