OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC200445

Stoml2 (NM_023231) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Stoml2
Synonyms:	0610038F01Rik; MSLP2; SLP-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC003425 sequence for NM_023231 GGCTGTGGGAAATGCTGGCGCGCGCGGCGCGGGGCACTGGAGCCCTTTTGCTGAGGGGCTCGGTGCAGGC TTCTGGCCGCGTTCCGCGCCGCGCCTCCTCTGGACTGCCCCGAAACACCGTGATCCTGTTTGTGCCTCAG CAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGATTCCACCGGATCCTGGAACCGGGCCTGAACGTCCTGA TCCCCGTGTTAGACCGAATCCGGTATGTGCAGAGTCTCAAGGAAATTGTTATCAACGTGCCTGAGCAGTC AGCCGTAACTCTTGACAATGTAACACTACAAATAGATGGAGTCCTTTATCTGCGCATCATGGATCCTTAC AAGGCAAGTTACGGTGTGGAAGACCCAGAGTATGCTGTCACCCAGTTAGCTCAGACGACTATGAGATCAG AGCTTGGCAAACTCTCTCTGGACAAAGTTTTTCGGGAGCGTGAGTCCCTGAATGCCAACATTGTGGATGC CATCAACCAGGCTGCAGACTGCTGGGGTATCCGATGCCTGCGATACGAGATCAAGGACATCCATGTGCCA CCTCGAGTGAAAGAGTCTATGCAGATGCAGGTAGAGGCAGAGCGCCGGAAGCGGGCCACAGTTCTAGAGT CCGAAGGGACACGAGAGTCAGCTATTAATGTGGCAGAGGGGAAGAAACAGGCCCAGATTCTGGCCTCCGA AGCAGAAAAGGCTGAACAGATAAATCAGGCGGCAGGAGAAGCCAGTGCAGTTCTGGCCAAGGCCAAGGCT AAAGCCGAAGCGATTCGAATTCTGGCTGGGGCTCTGACTCAACATAATGGAGATGCAGCAGCTTCGCTCA CTGTGGCTGAGCAGTATGTCAGCGCATTCTCCAAACTGGCCAAGGATTCCAACACAGTGCTACTGCCCTC CAATCCCAGCGACGTCACGAGTATGGTGGCTCAGGCCATGGGTGTCTATGGGGCTCTCACCAAAGCCCCA GTGCCCGGAGCCCAGAACTCCAGCCAGAGCAGAAGAGATGTCCAGGCTACAGACACGAGTATTGAAGAAC TGGGTAGAGTCAAGCTCAGTTAGTAGAGATGACTCGGCCAGGGAGTCTAGGGGCCGGGAGCTGCTCTCAA AAAAGATTCTGGTTCCAGCCTCCCGGCCAAATTTTAGTTTTTATTTTTTTATTTGAACTTACTAATCATG TAATAAAGTGACCAGTGGCAAATGGGAAACTGTCCTCATTGATTGGGGGATGAAGTTAGGAAAGCCACTC GGGTCGTCTTTGGCCGTCCACTTCCACCCTTCAGTCCAGGTCGGTGTGAGGAGTTGATTCTCCACGCGTG ACAAGGATTCACTTCATGTGAAGTGAAGTCATCCTGTCGTCAAGAGAAACCTCGGCTGTACGGGGATTGA GGCATGGTCTGCTGAACTGCCAGCTGCACAGTGGTGCAGGGGCTTGGGGACACACGGGAAAGGACAGCTT GCCCTTATGGTATGGCGGTCTTAAAGGGCAGAGGGTGTAGACTATTAAGCTATTAATAAACTAGGGTTTA CAAAAGCAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI

View online »

ACCN:	NM_023231
Insert Size:	1062 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC003425, AAH03425
RefSeq Size:	1565 bp
RefSeq ORF:	1062 bp
Locus ID:	66592
UniProt ID:	Q99JB2
Cytogenetics:	4 A5

Gene Summary: Mitochondrial protein that probably regulates the biogenesis and the activity of mitochondria. Stimulates cardiolipin biosynthesis, binds cardiolipin-enriched membranes where it recruits and stabilizes some proteins including prohibitin and may therefore act in the organization of functional microdomains in mitochondrial membranes. Through regulation of the mitochondrial function may play a role into several biological processes including cell migration, cell proliferation, T-cell activation, calcium homeostasis and cellular response to stress. May play a role in calcium homeostasis through negative regulation of calcium efflux from mitochondria. Required for mitochondrial hyperfusion a pro-survival cellular response to stress which results in increased ATP production by mitochondria. May also regulate the organization of functional domains at the plasma membrane and play a role in T-cell activation through association with the T-cell receptor signaling complex and its regulation. [UniProtKB/Swiss-Prot Function]