

Product datasheet for SC118178

Spermidine synthase (SRM) (NM_003132) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spermidine synthase (SRM) (NM_003132) Human Untagged Clone
Tag:	Tag Free
Symbol:	Spermidine synthase
Synonyms:	PAPT; SPDSY; SPS1; SRML1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118178 sequence for NM_003132 edited (data generated by NextGen Sequencing)

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ATGGAGCCCGGCCCGACGGCCCGCCGCTCCGCCCCGCCCATCCGCGAGGGCTGG
TTCCGCGAGACCTGCAGCCTGTGGCCCGCCAGGCCCTGTCGCTGCAGGTGGAGCAGCTG
CTCCACCACCGGCGCTCGCGCTACCAGGACATCCTCGTCTTCCGAGTAAGACCTATGGC
AACGTGCTGGTGTGGACGGTGTCCAGTGCACGGAGAGAGACGAGTTCTCCTACCAG
GAGATGATCGCCAACCTGCCTCTCTGCAGCCACCCCAACCCGCGAAAGGTGCTGATCATC
GGGGGCGGAGATGGAGGTGCTCCTGCGGGAGGTGGTGAAGCACCCCTCCGTGGAGTCCGTG
GTCCAGTGTGAGATCGACGAGGATGTCCAAAGTCTCCAAGAAGTTCTGCCAGGCATG
GCCATTGGCTACTCTAGCTCGAAGCTGACCCTACATGTGGGTGACGGTTTTGAGTTCATG
AAACAGAATCAGGATGCCTTCGACGTGATCATCACTGACTCCTCAGACCCCATGGGCCCC
GCCGAAAGTCTCTTCAAGGAGTCTATTACCAGCTCATGAAGACAGCCCTCAAGGAAGAT
GGTGTCTCTGCTGCCAGGGCGAGTGCCAGTGGCTGCACCTGGACCTCATCAAGGAGATG
CGGCAGTTCTGCCAGTCCCTGTTCCCGTGGTGGCCTATGCTACTGCACCATCCCACC
TACCCAGCGGCCAGATCGGCTTCATGCTGTGCAGCAAGAACCCGAGCACGAACCTCCAG
GAGCCGGTGCAGCCGCTGACACAGCAGCAGGTGGCGCAGATGCAGCTGAAGTACTACAAC
TCCGACGTGCACCGCCGCTTTGTGCTGCCCGAGTTTGCCCGCAAGGCCCTGAATGAT
GTGAGCTGA

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Clone variation with respect to NM_003132.2
102 a=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003132 unedited
 TTACATTTGTATACGACTCACTATAGGCGGCCCGCAATTCGCACGAGGGTTGTGCTGCG
 GCGCCGCGCGCCTGCAGTCCCGGGCCCGCCCGCGCCCGCCCGCCCGCCCGCCATGGA
 GCCCGGCCCGACGGCCCGCCGCTCCGGCCCGCCCGCCATCCGCGAGGGCTGGTTCCG
 CGAGACCTGCAGCCTGTGGCCCGCCAGGCCCTGTCGCTGCAGGTGGAGCAGTGTCTCA
 CCACCGCGCTCGCGTACCAGGACATCCTCGTCTCCGAGTAAGACCTATGGCAACGT
 GCTGGTGTGGACGGTGCATCCAGTGCACGGAGAGAGACGAGTTCTCCTACCAGGAGAT
 GATCGCCAACCTGCCTCTGACGCCACCCCAACCCGCGAAAGGTGCTGATCATCGGGGG
 CGGAGATGGAGGTGTCCTGCGGGAGGTGGTGAAGCACCCCTCCGTGGAGTCCGTGGTCCA
 GTGTGAGATCGACGAGGATGTCATCCAAGTCTCCAAGAAGTTCCTGCCAGGCATGGCCAT
 TGGCTACTCTAGCTCGAAGCTGACCCTACATGTGGGTGACGGTTTTGAGTTCATGACACA
 GAATCANGATGCCTTCGACGTGATCACTGACTCCTCAGACCCATGGGCCCGCCGA
 AAGTCTCTCAAGGAGTCTATTACCAGCTCATGAAGACAGCCCTCAAGGAGATGGTGT
 CCTCTGCCTGCCACGGCAGTGGCCATGGCTGCACCTGGACCTCATTCAAGAGATGCCGG
 CAGTTCTGCCAGTCCCCTGTTCCCCTTGGTGGCCTATGGCCTACTGTACCCATCCCCAC
 CTACCCAGNGGCCAGATCGGCTTCTTGTGGGGCGCAAGAACCCCGGACACGAACTTT
 CCAGAACCCGGGCAACCTTGAACCACCAAGTGGCGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003132 unedited
 ATGGCCGCGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCTATAAATACAGC
 TGTGGTGGTGGTGGAGGGCAACAGAAGGCAGAGAGATGGCGCTGTACACAGCTGGTATAG
 GCTTGGAGGTGGAACGCCAGAGAGACAGACACACAGACAGTCCGCCAGCAGGGCAGGCC
 GGGCAGCATTCTGGGGCTTGTAACTTGGTGGTGGGCGAGAGCCAGCAGGAGTCCGG
 CCCGGGGCTGGAGGGGCCGAGGCCACCCCGAGGCTCCAAGGTCCGAGGTCTGGGTGGCA
 TCAGTGGTGGCGCCTGGGCTCAGCTCACATCATTAGGGCCTTGGGGCAAACCTCGGGCA
 GCACAAAGGCGCGCGGTGCACGTCCGAGTTGTAGTACTTCAGCTGCATCTGCGCCACCT
 GCTGCTGTGTCAGCGGTGCACCGGCTCCTGGAAGTTCGTGCTCGGGTCTTGTGTCACA
 GCATGAAGCCGATCTGGCCGCTGGGGTAGGTGGGGATGGTGCAGTAGGCATAGGCCACCA
 CGGGGAACAGGGACTGGCAGAAGTCCCGCATCTCCTTGATGAGGTCCAGGTGCAGCCACT
 GGCATCGCCCTGGCAGCAGAGGACACCATCTTCTTTGAGGCTGTCTTCATGAGCTGGT
 AATAGGACTCCTTGAAGAGACTTTCGGCGGGCCATGGGGTCTGNAGAGTCAAGTATGA
 TCAGTGAAGGCATCCTGATTCTGTTTCATGAACTCAAAACCGTCAACCCACATTGTAGG
 GNTCAGCTTCGAGCTANAAGTAGCCAATGGCCATGCCCTGGCAGGAACTTCTTGGNAGAC
 TTGGATGACATCCTCGTCGATCTACACTGGACCAGACTCCCGGAAGGGTCTTACCACC
 TCCCCAGGGAACCNATTTTCGGC

Restriction Sites:

NotI-NotI

ACCN:

NM_003132

Insert Size:

1310 bp

OTI Disclaimer:

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).

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_003132.2 , NP_003123.2
RefSeq Size:	1273 bp
RefSeq ORF:	909 bp
Locus ID:	6723
UniProt ID:	P19623
Cytogenetics:	1p36.22
Domains:	Spermine_synth
Protein Pathways:	Arginine and proline metabolism, beta-Alanine metabolism, Cysteine and methionine metabolism, Glutathione metabolism, Metabolic pathways
Gene Summary:	The polyamines putrescine, spermine, and spermidine are ubiquitous polycationic mediators of cell growth and differentiation. Spermidine synthase is one of four enzymes in the polyamine-biosynthetic pathway and carries out the final step of spermidine biosynthesis. This enzyme catalyzes the conversion of putrescine to spermidine using decarboxylated S-adenosylmethionine as the cofactor. [provided by RefSeq, Jul 2008]