

## Product datasheet for **MG204222**

### Srm (NM\_009272) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Srm (NM\_009272) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Srm  
**Synonyms:** AA407669; SpdST; SpdSy  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204222 representing NM\_009272  
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GGCGGCC**

ATGGAGCCTGGCCCCGACGGCCAGCCGCGCCCGCCCGCCCATCCGTGAGGGCTGGTCCGAGAGA  
 CCTGCAGCCTGTGGCCCGCCAGGCCCTGTCGCTGCAAGTGGAGCAGCTGCTTACCACCGGCGATCGCG  
 GTACCAAGACATCCTCGTCTTCCGAGTAAAACCTACGGCAACGTGCTGGTCTGGATGGCGTCATCCAG  
 TGTACTGAGAGGGATGAGTTCTCCTACCAGGAGATGATCGCCAACCTGCCGCTCTGCAGCCACCCCAACC  
 CGCGGAAGGTGCTGATCATCGGGGTGGAGATGGGGCGTCTACGGGAAGTGGTGAAGCACCCCTCTGT  
 GGAGTCGGTGGTCCAGTGCAGATTGATGAGGATGTCATTGAAGTCTCTAAGAAGTTCCTGCCTGGCATG  
 GCCGTTGGCTTCTCCAGCTCAAAGCTGACTCTCCACGTGGGCGATGGCTTTGAGTTCATGAAACAGAACC  
 AAGATGCCTTTGACGTATCATCACCGACTCCTCAGACCCATGGGCCCTGCTGAGAGCCTCTTCAAGGA  
 GTCCTATTACCAGCTCATGAAGACAGCACTCAAAGAAGATGGCATCCTGTGCTGCCAGGGTGAGTGCCAG  
 TGGCTGCACCTGGACCTCATCAAGGAGATGAGGCACTTCTGCAAATCTCTTCCCGTGGTGGACTACG  
 CCTACTGTAGCATTCTACCTATCCCAGCGCCAGATCGGCTTCATGCTGTGTAGCAAAAACCCGAGCAC  
 CAACTTCCGGGAGCCAGTGCAGCAGTTGACACAGGCCAGGTGGAGCAGATGCAGCTGAAATACTATAAC  
 TCGGACATGCACCGTGCCGCTTCGACTGCCGAGTTCACCCGGAAGGCCCTCAATGACATAAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204222 representing NM\_009272  
 Red=Cloning site Green=Tags(s)

MEPGPDGPAAPGPAAIREGWFRETCSLWPGQALSLQVEQLLHHRRSRYQDILVFRSKTYGNVLVLDGVIQ  
 CTERDEFSYQEMIANLPLCSHPNPRKVLIIIGGGDGGVLRVVKHPSVSVVQCEIDEDVIEVSKKFLPGM  
 AVGFSSSKLTLHVGDGFEFMKQNQDAFDVITDSSDPMGPAESLTKESYQMLMKTALKEDGILCCQGECC  
 WLHLDLIKEMRHFCCKSLFPVVDYAYCSIPTYPSTGQIGFMLCSKNPSTNFRPVPVQLTQAQVEQMLKYYN  
 SDMHRAAFVLPFTRKALNDIS

TRTRPLE - GFP Tag - V

**Restriction Sites:** AscI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009272

**ORF Size:** 906 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\\_009272.4](#), [NP\\_033298.1](#)

**RefSeq Size:** 1328 bp

**RefSeq ORF:** 909 bp

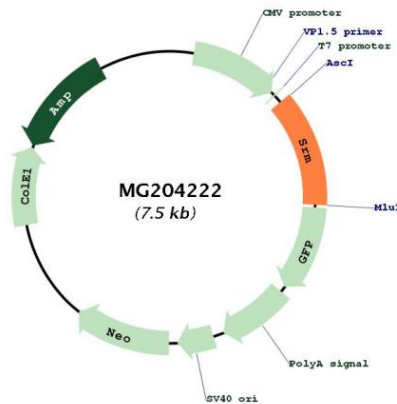
**Locus ID:** 20810

**UniProt ID:** [Q64674](#)

**Cytogenetics:** 4 E2

**Gene Summary:** Catalyzes the production of spermidine from putrescine and decarboxylated S-adenosylmethionine (dcSAM). Has a strong preference for putrescine as substrate, and has very low activity towards 1,3-diaminopropane. Has extremely low activity towards spermidine (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG204222