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# Product datasheet for RC200619L1V

## Spermine synthase (SMS) (NM_004595) Human Tagged ORF Clone Lentiviral Particle

### Product data:

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|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Spermine synthase (SMS) (NM_004595) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | SMS |
| **Synonyms:** | MRSR; SPMSY; SpS; SRS |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-Myc-DDK (PS100064) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_004595 |
| **ORF Size:** | 1098 bp |
| **ORF Nucleotide Sequence:** | `The ORF insert of this clone is exactly the same as(RC200619).` |
| **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. |
| **RefSeq:** | NM_004595.2 |
| **RefSeq Size:** | 1868 bp |
| **RefSeq ORF:** | 1101 bp |
| **Locus ID:** | 6611 |
| **UniProt ID:** | P52788 |
| **Cytogenetics:** | Xp22.11 |
| **Domains:** | Spermine_synth |

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|---|---|
| **Protein Pathways:** | Arginine and proline metabolism, beta-Alanine metabolism, Cysteine and methionine metabolism, Glutathione metabolism, Metabolic pathways |
| **MW:** | 41.3 kDa |
| **Gene Summary:** | This gene encodes a protein belonging to the spermidine/spermin synthase family and catalyzes the production of spermine from spermidine. Pseudogenes of this gene are located on chromosomes 1, 5, 6 and X. Mutations in this gene cause an X-linked intellectual disability called Snyder-Robinson Syndrome (SRS). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2017] |