

Product datasheet for **MC202652**

Sat1 (NM_009121) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sat1 (NM_009121) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sat1
Synonyms: AA617398; Sat; SSAT
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC058696 sequence for NM_009121
 CGGCTCCCGTCCAGGGAGGAGCTTCTGCGGACTTAAAAGGCACCGTCTTGCCACTTCTTAGCTGCGCAG
 TTTCCCCGAAGTAAGTTTGCCAGTTTTCTGTCTTATACTGAGGTTCCGCCGGTTCATGGTGCCAGCCTGAC
 TGAGAAGAGGACGCTCCCGGAAACGAATGAGGAACCACCTCCTCCTGCTGTTCAAGTACAGGGCCTGG
 TGCCAAAGGGAAGAAAAGCAAAAGACGAAAATGGCTAAATTTAAGATCCGTCCAGCCACTGCCTCTGAC
 TGCAGTGACATCCTGCGACTGATCAAGGAACTGGCTAAATATGAATACATGGAAGATCAAGTCATTTTAA
 CTGAGAAAAGATCTCCAAGAGGATGGCTTTGGAGAACACCCCTTCTACCACTGCCTGGTTGCAGAAGTGCC
 TAAAGAGCACTGGACCCCTGAAGGACATAGCATTGTTGGGTTCCGCATGTACTATTTTACCTATGACCCA
 TGGATTGGCAAGTTGCTGTATCTTGAAGACTTCTTCGTGATGAGTGATTACAGAGGCTTTGGTATAGGAT
 CAGAAATTTTGAAGAATCTAAGCCAGGTTGCCATGAAGTGTGCTGCAGCAGTATGCACTTCTTGGTAGC
 AGAATGGAATGAACCATCTATCAACTTCTACAAAAGAAGAGGTGCTTCGGATCTGTCCAGTGAAGAGGGA
 TGGAGGCTCTTCAAGATTGACAAAGAGTACTTGCTAAAAATGGCAGCAGAGGAGTGAGGCGTGCCGGTGT
 AGACAATGACAACCTCCATTGTGCTTTAGAATAATTCTCAGCTTCCCTTGCTTTCTATCTTGTGTAGT
 GAAATAATAGAGCGAGCACCCATTCCAAAGCTTTATTACCACTGACGTTGTTGCATGTTTGAATTCGGT
 CTGTTTAAAGTGGCAGTCATGTATGTGGTTTGGAGGCAGAATTCTTGAACATCTTTTGTGAAGAACAAG
 GTGGTATGATCTTACTATATAAGAAAAACAAACTTCACTTGTGAGTCATTTAAATGTGTACAATGTA
 CACACTGGTACTTAGAGTTTCTGTTTTGATTCTTTTTTTTTTAAATAAACTACTTTTGATTTAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI
ACCN: NM_009121
Insert Size: 516 bp



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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.

RefSeq: [BC058696](#), [AAH58696](#)

RefSeq Size: 1233 bp

RefSeq ORF: 516 bp

Locus ID: 20229

UniProt ID: [P48026](#)

Cytogenetics: X 72.38 cM

Gene Summary: Enzyme which catalyzes the acetylation of polyamines. Substrate specificity: norspermidine = spermidine >> spermine > N(1)-acetylspermine > putrescine. This highly regulated enzyme allows a fine attenuation of the intracellular concentration of polyamines. Also involved in the regulation of polyamine transport out of cells. Acts on 1,3-diaminopropane, 1,5-diaminopentane, putrescine, spermidine (forming N(1)- and N(8)-acetylspermidine), spermine, N(1)-acetylspermidine and N(8)-acetylspermidine (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (1).