

Product datasheet for MR201444

Sat1 (NM_009121) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sat1 (NM_009121) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sat1
Synonyms: AA617398; Sat; SSAT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201444 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTAAATTTAAGATCCGTCCAGCCACTGCCTCTGACTGCAGTGACATCCTGCGACTGATCAAGGAAC
 TGGCTAAATGAATACATGGAAGATCAAGTCATTTAACTGAGAAAGATCTCCAAGAGGATGGCTTTGG
 AGAACACCCCTTCTACCACTGCCTGGTTGCAGAAGTGCCTAAAGAGCACTGGACCCCTGAAGGACATAGC
 ATTGTTGGGTTCCCATGTACTATTTACCTATGACCCATGGATTGGCAAGTTGCTGTATCTTGAAGACT
 TCTTCGTGATGAGTGATTACAGAGGCTTTGGTATAGGATCAGAAATTTGAAGAATCTAAGCCAGGTTGC
 CATGAAGTGTGCTGCAGCAGTATGCACCTCTTGGTAGCAGAATGGAATGAACCATCTATCAACTTCTAC
 AAAAGAAGAGGTCTTCGGATCTGTCCAGTGAAGAGGGATGGAGGCTCTCAAGATTGACAAAGAGTACT
 TGCTAAAATGGCAGCAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201444 protein sequence
 Red=Cloning site Green=Tags(s)

MAKFKIRPATASDCSDILRLIKELAKYEYMEDQVILTEKDLQEDGFGEHPFYHCLVAEVPKEHWTPEGHS
 IVGFAMYFTYDPWIGKLLYLEDFVMSDYRGGFVIGSEILKNLSQVAMKCRCSMHFLVAEWNEPSINFY
 KRRGASDLSSEEGWRLFIDKEYLLKMAAEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_009121

ORF Size: 516 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](#)

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_009121.4](#)

RefSeq Size: 1168 bp

RefSeq ORF: 516 bp

Locus ID: 20229

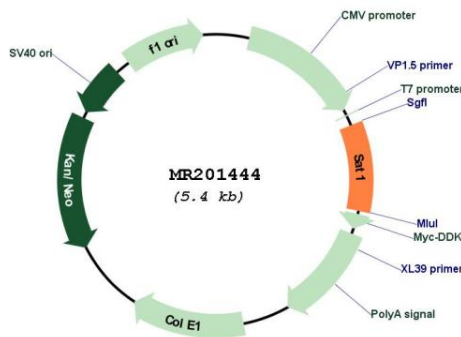
UniProt ID: [P48026](#)

Cytogenetics: X 72.38 cM

MW: 20 kDa

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]

Product images:



Circular map for MR201444