

Product datasheet for **MC225606**

Sat1 (NM_001291865) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sat1 (NM_001291865) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sat1
Synonyms: AA617398; Sat; SSAT
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225606 representing NM_001291865
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTACTATTTTACCTATGACCCATGGATTGGCAAGTTGCTGTATCTTGAAGACTTCTTCGTGATGAGTG
ATTACAGAGGCTTTGGTATAGGATCAGAAATTTGAAGAATCTAAGCCAGGTTGCCATGAAGTGTGCTGCTG
CAGCAGTATGCACTTCTGGTAGCAGAATGGAATGAACCATCTATCAACTCTACAAAAGAAGAGGTGCT
TCGGATCTGTCCAGTGAAGAGGGATGGAGGCTCTCAAGATTGACAAAGAGTACTTGCTAAAAATGGCAG
CAGAGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001291865
Insert Size: 291 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).
OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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:	<u>NM_001291865.1, NP_001278794.1</u>
RefSeq Size:	1278 bp
RefSeq ORF:	291 bp
Locus ID:	20229
UniProt ID:	<u>P48026</u>
Cytogenetics:	X 72.38 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate exon and initiates translation at an alternate start codon compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>