

Product datasheet for MR227817

Sat1 (NM_001291865) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sat1 (NM_001291865) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sat1
Synonyms: AA617398; Sat; SSAT
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227817 representing NM_001291865
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACTATTTTACCTATGACCCATGGATTGGCAAGTTGCTGTATCTTGAAGACTTCTTCGTGATGAGTG
ATTACAGAGGCTTTGGTATAGGATCAGAAATTTGAAGAATCTAAGCCAGGTTGCCATGAAGTGTGCTGCTG
CAGCAGTATGCACTTCTTGGTAGCAGAATGGAATGAACCATCTATCAACTCTACAAAAGAAGAGGTGCT
TCGGATCTGTCCAGTGAAGAGGGATGGAGGCTCTCAAGATTGACAAAGAGTACTTGCTAAAAATGGCAG
CAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227817 representing NM_001291865
Red=Cloning site Green=Tags(s)

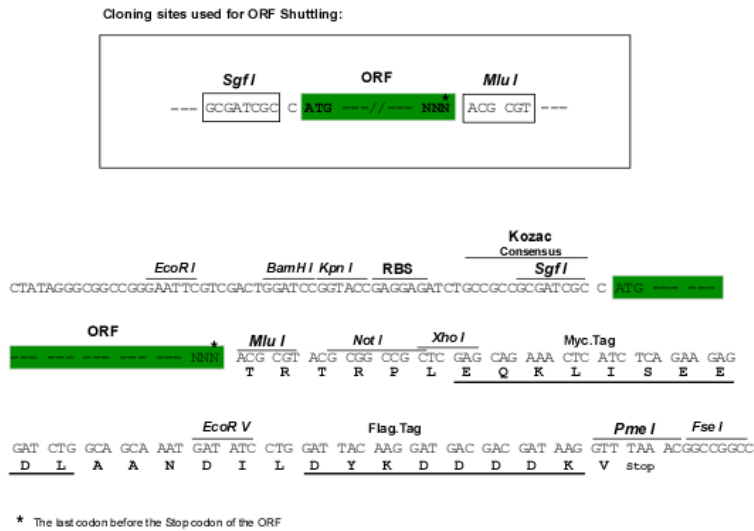
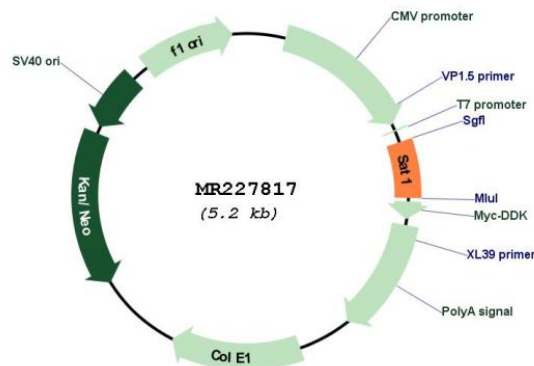
MYFYTPWIGKLLYLEDFVMSDYRFGIGSEILKNLSQVAMKCRSSMHFLVAEWNPSINFYKRRGA
SDLSSEEGWRLFKIDKEYLLKMAEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001291865

ORF Size: 288 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:	<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</u> , <u>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
MW:	11.9 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]