

Product datasheet for **RR213081**

Sat1 (NM_001007667) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sat1 (NM_001007667) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sat1
Synonyms: Ab2-402; Sat; SSAT
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213081 representing NM_001007667
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTAAATTTAAGATCCGTCCAGCCACTGCCTCTGACTGCAGTGACATCCTGCGACTGATCAAGGAAC
 TGGCTAAATATGAATACATGGAAGATCAAGTAGTTTTAACTGAGAAAGATCTCTTAGAGGATGGTTTTGG
 AGAGCACCCCTTCTACCACTGCCTGGTTGCAGAAGTGCCTAAAGAGCACTGGACCCTGAAGGACACAGC
 ATTGTTGGTTTTGCCATGTACTATTTTACCTATGACCCATGGATTGGCAAGTTACTGTATCTTGAAGACT
 TCTTTGTGATGAGTGATTACCGAGGCTTTGGTATAGGATCAGAAATTTGAAGAATCTAAGCCAGGTTGC
 TATGAAGTGTGCGCTGCAGCAGTATGCACCTCTTGGTAGCAGAGTGAATGAACCATCTATCAACTCTAC
 AAAAGAAGAGGTGCTTCGGATCTGTCCAGTGAAGAGGGATGGAGACTATTCAAGATTGACAAAGAATACT
 TGCTAAAATGGCAGCAGAGGAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213081 representing NM_001007667
 Red=Cloning site Green=Tags(s)

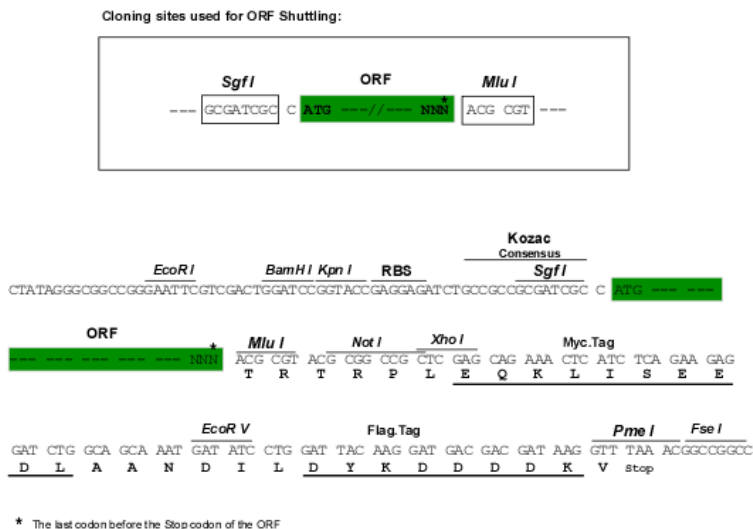
MAKFKIRPATASDCSDILRLIKELAKYEYMEDQVVLTEKDLLEDGFGEHPFYHCLVAEVPKEHWTPEGHS
 IVGFAMYFTYDPWIGKLLYLEDFVMSDYRFGIGSEILKNLSQVAMKCRCSMHFLVAEWNEPSINFY
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

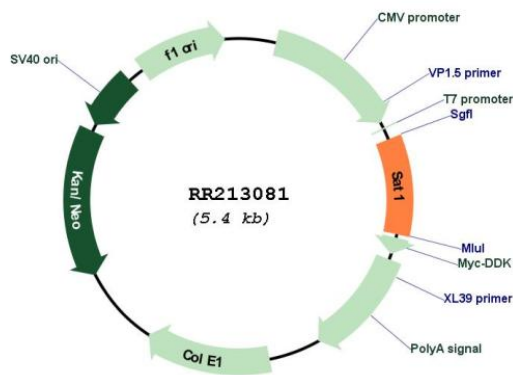
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001007667

ORF Size: 513 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_001007667.2</u> , <u>NP_001007668.1</u>
RefSeq Size:	1193 bp
RefSeq ORF:	516 bp
Locus ID:	302642
Cytogenetics:	Xq21
MW:	20 kDa
Gene Summary:	putative spermidine/spermine N1-acetyltransferase enzyme; mouse homolog is rate controlling enzyme in back conversion of spermidine and spermine [RGD, Feb 2006]