

Product datasheet for RC204044

SAT2 (NM 133491) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SAT2 (NM_133491) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: SAT2

Synonyms: SSAT2

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC204044 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTTCCGTGCGGATCCGAGAGGCCAAGGAGGGAGACTGTGGAGATATCCTGAGGCTGATTCGGGAGC
TAGCCGAATTCGAAAAACTCTCGGATCAGGTGAAGATCAGTGAAGAAGCCCTGAGAGCAGATGGCTTTGG
AGACAATCCTTTCTATCACTGTTTGGTAGCAGAGATTCTTCCAGCGCCCGGGAAGCTACTGGGGCCCTGC
GTGGTGGGCTATGGGATATACTATTTCATCTACAGTACATGGAAGGGACGCACCATTTATCTGGAGGATA
TCTATGTGATGCCGGAATATCGGGGTCAAGGGATTGGTTCCAAAAATAATCAAAAAAGGTGGCTGAGGTGGC
CTTGGATAAGGGCTGCCCAATTCCGCCTGGCCGTCCTGGACTGGACCAGAGGGCCATGGACTTGTAC
AAGGCCCTAGGAGCCCAAAAA

CGAGAAAGTTGGCAGGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204044 protein sequence

Red=Cloning site Green=Tags(s)

MASVRIREAKEGDCGDILRLIRELAEFEKLSDQVKISEEALRADGFGDNPFYHCLVAEILPAPGKLLGPC VVGYGIYYFIYSTWKGRTIYLEDIYVMPEYRGQGIGSKIIKKVAEVALDKGCSQFRLAVLDWNQRAMDLY

KALGAQDLTEAEGWHFFCFQGEATRKLAGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6423 b03.zip



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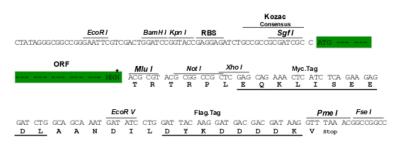


Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_133491

ORF Size: 510 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. <u>More info</u>

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.

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Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 133491.5</u>

 RefSeq Size:
 983 bp

 RefSeq ORF:
 513 bp

 Locus ID:
 112483

 UniProt ID:
 Q96F10

 Cytogenetics:
 17p13.1

Domains: Acetyltransf

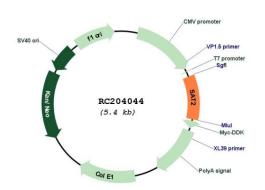
Protein Pathways: Arginine and proline metabolism, Metabolic pathways

MW: 19.2 kDa

Gene Summary: Enzyme which catalyzes the acetylation of polyamines. Substrate specificity: norspermidine >

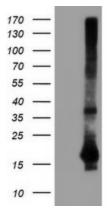
spermidine = spermine >> N(1)acetylspermine = putrescine.[UniProtKB/Swiss-Prot Function]

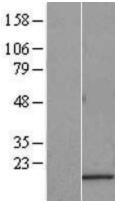
Product images:

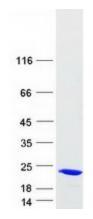


Circular map for RC204044









HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SAT2 (Cat# RC204044, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SAT2(Cat# [TA504633]). Positive lysates [LY408821] (100ug) and [LC408821] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY408821]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204044 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified SAT2 protein (Cat# [TP304044]). The protein was produced from HEK293T cells transfected with SAT2 cDNA clone (Cat# RC204044) using MegaTran 2.0 (Cat# [TT210002]).