

Product datasheet for RC203275

SAT1 (NM 002970) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SAT1 (NM_002970) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: SAT1

Synonyms: DC21; KFSD; KFSDX; SAT; SSAT; SSAT-1

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC203275 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TGCTAAAAATGGCAACAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203275 protein sequence

Red=Cloning site Green=Tags(s)

MAKFVIRPATAADCSDILRLIKELAKYEYMEEQVILTEKDLLEDGFGEHPFYHCLVAEVPKEHWTPEGHS IVGFAMYYFTYDPWIGKLLYLEDFFVMSDYRGFGIGSEILKNLSQVAMRCRCSSMHFLVAEWNEPSINFY

KRRGASDLSSEEGWRLFKIDKEYLLKMATEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6051 a10.zip



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



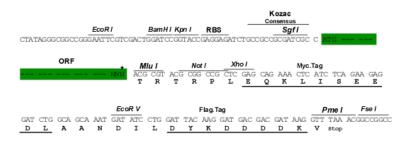
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling: ORF Sgfl Mlul

CGATCG ACG CGT



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

ACCN: NM 002970

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: 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.

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

0.22um filter is required.

RefSeq: NM 002970.3

RefSeq Size: 1085 bp RefSeq ORF: 516 bp



Locus ID: 6303

UniProt ID: P21673

Cytogenetics: Xp22.11

Domains: Acetyltransf

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

MW: 20 kDa

Gene Summary: The protein encoded by this gene belongs to the acetyltransferase family, and is a rate-

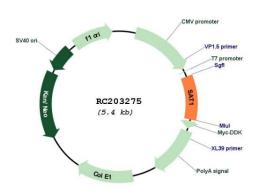
limiting enzyme in the catabolic pathway of polyamine metabolism. It catalyzes the

acetylation of spermidine and spermine, and is involved in the regulation of the intracellular

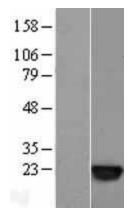
concentration of polyamines and their transport out of cells. Defects in this gene are associated with keratosis follicularis spinulosa decalvans (KFSD). Alternatively spliced

transcripts have been found for this gene.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RC203275



Western blot validation of overexpression lysate (Cat# [LY401040]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203275 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).