

Product datasheet for **RG203275**

SAT1 (NM_002970) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SAT1 (NM_002970) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SAT1
Synonyms: DC21; KFSD; KFSDX; SAT; SSAT; SSAT-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203275 representing NM_002970
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTAAATTCGTGATCCGCCAGCCACTGCCGCCACTGCAGTGACATACTGCGGCTGATCAAGGAGC
 TGGCTAAATGAATACATGGAAGAACAAGTAATCTTAAGTAAAAAGATCTGCTAGAAGATGGTTTTGG
 AGAGCACCCCTTTACCACTGCCTGGTTGCAGAAGTGCCGAAAGAGCACTGGACTCCGGAAGGACACAGC
 ATTGTTGGTTTTGCCATGTACTATTTACCTATGACCCGTGGATTGGCAAGTTATTGTATCTTGAGGACT
 TCTTCGTGATGAGTGATTATAGAGGCTTTGGCATAGGATCAGAAATCTGAAGAATCTAAGCCAGGTTGC
 AATGAGGTGTCGCTGCAGCAGCATGCACCTCTTGGTAGCAGAATGGAATGAACCATCCATCAACTTCTAT
 AAAAGAAGAGGTCTTCTGATCTGTCCAGTGAAGAGGGTTGGAGACTGTTCAAGATCGACAAGGAGTACT
 TGCTAAAATGGCAACAGAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203275 representing NM_002970
 Red=Cloning site Green=Tags(s)

MAKFVIRPATAADCSILRLIKELAKYEYMEEQVILTEKDLEDGFGEHPFYHCLVAEVPKEHWTPEGHS
 IVGFAMYFTYDPWIGKLLYLEDFVMSDYRGFGIGSEILKNLSQVAMRCRCSSMHFLVAEWNEPSINFY
 KRRGASDLSSEEGWRLFIDKEYLLKMATEE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


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.

RefSeq: [NM_002970.3](#)

RefSeq Size: 1060 bp

RefSeq ORF: 516 bp

Locus ID: 6303

UniProt ID: [P21673](#)

Cytogenetics: Xp22.11

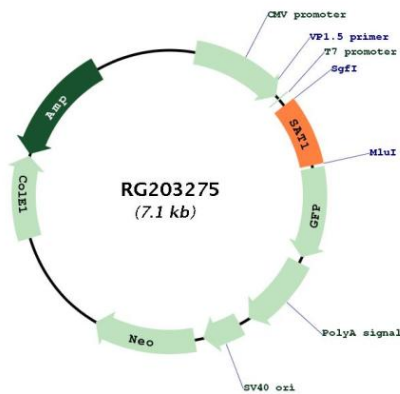
Domains: Acetyltransf

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

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 RG203275