

## Product datasheet for **SC120524**

### **SAT2 (NM\_133491) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SAT2 (NM_133491) Human Untagged Clone
Tag:	Tag Free
Symbol:	SAT2
Synonyms:	SSAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_133491, the custom clone sequence may differ by one or more nucleotides

```
ATGGCTTCCGTGCGGATCCGAGAGGCCAAGGAGGGAGACTGTGGAGATATCCTGAGGCTGATTCGGGAGC  
TAGCCGAATTCGAAAACTCTCGGATCAGGTGAAGATCAGTGAAGAAGCCCTGAGAGCAGATGGCTTTGG  
AGACAATCCTTTCTACTGTTTGGTAGCAGAGATTCTCCAGCGCCCGGAAGCTACTGGGGCCCTGC  
GTGGTGGGCTATGGGATATACTATTTCTACAGTACATGGAAGGGACGCACCATTTATCTGGAGGATA  
TCTATGTGATGCCGGAATATCGGGTCAAGGGATTGGTTCCAAAATAATCAAAAAGGTGGCTGAGGTGCC  
CTTGGATAAAGGGCTGCTCCCAATTCGCCTGGCCGCTCTGGACTGGAACCAGAGGGCCATGGACTTGAC  
AAGGCCCTAGGAGCCAAGATCTGACGGAAGCTGAGGGCTGGCACTTCTCTGCTTCAAGGAGAGGCAA  
CGAGAAAGTTGGCAGGAAAGTGA
```

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/ja2816_g08.zip">https://cdn.origene.com/chromatograms/ja2816_g08.zip</a>
Restriction Sites:	NotI-NotI
ACCN:	NM_133491
Insert Size:	1650 bp



[View online »](#)

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_133491.2</a>, <a href="#">NP_597998.1</a></p>
<b>RefSeq Size:</b>	<p>953 bp</p>
<b>RefSeq ORF:</b>	<p>513 bp</p>
<b>Locus ID:</b>	<p>112483</p>
<b>UniProt ID:</b>	<p><a href="#">Q96F10</a></p>
<b>Cytogenetics:</b>	<p>17p13.1</p>
<b>Domains:</b>	<p>Acetyltransf</p>
<b>Protein Pathways:</b>	<p>Arginine and proline metabolism, Metabolic pathways</p>
<b>Gene Summary:</b>	<p>Enzyme which catalyzes the acetylation of polyamines. Substrate specificity: norspermidine &gt; spermidine = spermine &gt;&gt; N(1)acetylspermine = putrescine.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) uses an alternate 5' terminal exon, resulting in a novel 5' UTR and the use of an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus, and is shorter than isoform 1.</p>