

## Product datasheet for **MC227056**

### Sae1 (NM\_001285892) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sae1 (NM_001285892) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sae1
Synonyms:	2400010M20Rik; 2610044L12Rik; AL033372; AOS1; AW743391; D7Ertd177e; HSPC140; Sua1; Uble1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227056 representing NM_001285892 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTAGAGAAGGAGGAGGCTGGCGGGCGGGCGGGTGGCATCAGCGAGGAGGAGGCAGCGCAGTATG  
ACCGACAGATCCGCCTGTGGGACTGGAGGCCAGAAGCGGCTTCGAGCTTCCCGGTGCTGATTGTTGG  
CATGAAAGGACTTGGAGCTGAAATTGCCAAGAATCTTATCCTGGCAGGAGTCAAAGGGCTCACCATGCTG  
GACCACGAACAGGTATCTCCAGAAGACCCTGGAGCTCAGTCTTGATTGACTGGGTCTGTGGCCGCA  
ATAGGGCCGAGGCTCTTTGGAACGAGCCAGAATCTCAATCCCATGGTGGATGTAAGGTGGACTGTA  
GGATGTAGAGAAGAAGCCAGAGTCTTCTTACGAAGTTTGATGCGGTGTGCCTGACTTGCTGCTCCAGA  
GATGTCATCATTAAAGTCGACCAGATCTGTACAGAAACAGCATTAAAGTCTTACAGGAGATGCTTTG  
GGTACCATGGGTACACCTTTGCGAATCTTGAGAGCATGAATTTGTAGAAGAGAAAACAAAGTTGCCAA  
AGTAAGCCAAGGAGTGGAAGATGGACCTGAGGCCAAGAGAGCAAAGCTTGATTATCAGAGACAACCATG  
GTCAAAAAGAAAGTGCTTTTTGCCCCTGTAAAAGAGGCGCTAGAAGTGGACTGGAGTGGAGAGAAAGCCA  
AGGCTGCCCTGAAGCGTACTGCCCCGACTACTTTCTGCTGCAAGTGTGCTGAAATCCGCACAGATAA  
AGGGAGAGATCCGACTTCTGAGAGCTACAAGGAGGATGCGGAGCTGCTGCTGCAGATACGGAATGACGTG  
TTTGACTCCCTGGGCATCAGTCTGACCTGCTTCCCGATGACTTTGTCAGGTACTGCTTCTGAGATGG  
CCCCAGTATGTGCTGTGGTTGGAGGGATCTTGGCACAGGAAATGTGAAGTTTGTCTGGCACCATGTG  
TGCT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001285892
<b>Insert Size:</b>	987 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<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>	<u><a href="#">NM_001285892.1</a></u> , <u><a href="#">NP_001272821.1</a></u>
<b>RefSeq Size:</b>	1751 bp
<b>RefSeq ORF:</b>	987 bp
<b>Locus ID:</b>	56459
<b>UniProt ID:</b>	<u><a href="#">Q9R1T2</a></u>
<b>Cytogenetics:</b>	7 8.88 cM
<b>Gene Summary:</b>	<p>The heterodimer acts as an E1 ligase for SUMO1, SUMO2, SUMO3, and probably SUMO4. It mediates ATP-dependent activation of SUMO proteins followed by formation of a thioester bond between a SUMO protein and a conserved active site cysteine residue on UBA2/SAE2 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter and distinct C-terminus compared to isoform a.</p>