

Product datasheet for RN207212

Sae1 (NM_001012063) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sae1 (NM_001012063) Rat Untagged Clone
Tag: Tag Free
Symbol: Sae1
Synonyms: Uble1a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN207212 representing NM_001012063
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGGAGAAGGAGGAGGT**CAGCGCGCGCGCGCGGCATCAGCGAGGAGGAGGCAGCGCAGTATGACC**
GACAGATCCGCCTGTGGGACTGGAGGCTCAGAAGCGGCTTCGAGCTTCTCGGGTACTGATTGTCGGCAT
GAAAGGACTTGGGCTGAAATCGCCAAGAACCTTATCCTGGCAGGAGTAAAGGGCTCACCATGCTGGAC
CATGAACAGGTATCTCCAGAAGACCTTGGAGCTCAGTTCTTGATTGCGAAGTGGTCTGTGGCCAAACA
GGCCCGAGGCCTCTTTGGAACGAGCCCAGAATCTCAACCCCATGGTGGATGTAAGGTGGACACTGAGGA
TATAGAGAAGAAGCCAGAGTCTTCTTACAGAGTTTGTGCGGTGTGCCTGACTTGCTGCTCCAAAGAT
GTCATCATTAAAGTCGACCAGATCTGTCACAGAAATAGCATCAAGTTCTTACAGGAGATGTCTTTGGGT
ACCATGGGTACACCTTTGCAAATCTTGGAGAGCATGAATTTGTAGAAGAGAAAACCAAAGTTACCAAAGT
CAGCCAAGGAGTGAAGATGGACCTGATGCCAAGAGAGCAAAGCTTGACTCATCGGAGACCACCATGGTC
AAAAAGAAAGTGCTTTTCTGCCCTGTAAGGAAGCGCTAGCAGTGGACTGGAGTGGAGAGAAAGCCAGG
CTGCCCTGAAGCGCACTGCCCCAGACTACTTTCTGCTGCAAGTGTGCTGAAGTTCGCACGGATAAAGG
GAGAGACCTACTTCTGACAGCTACAGCGAGGATGCCGAGCTGCTGCTGCAGATACGCAATGACGTGTTT
GACTCGCTGGGCGTCAGTCTGACCTGCTTCCCGATGACTTTGTGAGGACTGCTTCTCTGAGATGGCCC
CAGTATGTGCTGTGGTTGGAGGAATCTTGGCACAGGAAATGTGAAGGCCTGTCTCAAAGGGACCTCC
TCACAACAACCTTCTTCTTCTCGATGGCATGAAGGGGAGTGAATTGTGGAGTGCCTTGGTCCCCAG**TGA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001012063



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Insert Size:	1050 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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:	<u>NM_001012063.1</u> , <u>NP_001012063.1</u>
RefSeq Size:	1914 bp
RefSeq ORF:	1050 bp
Locus ID:	308384
UniProt ID:	<u>Q6AXQ0</u>
Cytogenetics:	1q21
Gene Summary:	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]