

Product datasheet for RC226908

SAE1 (NM 001145713) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SAE1 (NM_001145713) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: SAE1

Synonyms: AOS1; HSPC140; SUA1; UBLE1A

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC226908 representing NM_001145713
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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



Protein Sequence: >RC226908 representing NM_001145713

Red=Cloning site Green=Tags(s)

MVEKEEAGGGISEEEAAQYDRQIRLWGLEAQKRLRASRVLLVGLKGLGAEIAKNLILAGVKGLTMLDHEQ VTPEDPGAQFLIRTGSVGRNRAEASLERAQNLNPMVDVKVDTEDIEKKPESFFTQFDAVCLTCCSRDVIV KVDQICHKNSIKFFTGDVFGYHGYTFANLGEHEFVEEKTKVAKVSQGVEDGPDTKRAKLDSSETTMVKKK VVFCPVKEALEVDWSSEKAKAALKRTTSDYFLLQGPVSAGPSSQQLLLLRWHEGEWDCGVPWPQVNSRFG SPRDANCSMPTCIPCPLPS

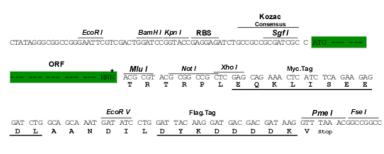
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050 e12.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM 001145713

ORF Size: 897 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: <u>NM 001145713.2</u>

RefSeq ORF: 900 bp

 Locus ID:
 10055

 UniProt ID:
 Q9UBE0

 Cytogenetics:
 19q13.32

Protein Pathways: Ubiquitin mediated proteolysis

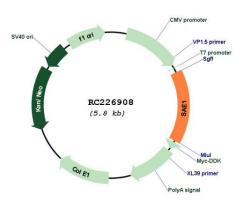
MW: 32.9 kDa

Gene Summary: Posttranslational modification of proteins by the addition of the small protein SUMO (see

SUMO1; MIM 601912), or sumoylation, regulates protein structure and intracellular localization. SAE1 and UBA2 (MIM 613295) form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (Okuma et al., 1999 [PubMed 9920803]).

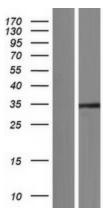
[supplied by OMIM, Mar 2010]

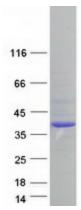
Product images:



Circular map for RC226908







Western blot validation of overexpression lysate (Cat# [LY428977]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226908 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified SAE1 protein (Cat# [TP326908]). The protein was produced from HEK293T cells transfected with SAE1 cDNA clone (Cat# RC226908) using MegaTran 2.0 (Cat# [TT210002]).