

## **Product datasheet for RR208427**

## Sumo3 (NM 001024295) Rat Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Sumo3 (NM\_001024295) Rat Tagged ORF Clone

Tag:Myc-DDKSymbol:Sumo3

Mammalian Cell Selection:

Neomycin

**Vector:** pCM

pCMV6-Entry (PS100001) Kanamycin (25 ug/mL)

E. coli Selection: ORF Nucleotide

>RR208427 representing NM\_001024295

Sequence:

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CCTCCCGAGCCAGCGTCCCCACACCCAGCCATTTTCCTGACATTTGCTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208427 representing NM\_001024295

Red=Cloning site Green=Tags(s)

MSEEKPKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETD

TPAQLEMEDEDTIDVFQQQTGGTASRASVPTPSHFPDICY

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** Sgfl-Mlul



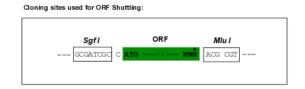
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

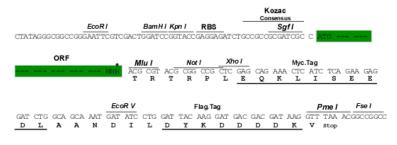
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



## Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001024295

ORF Size: 330 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 001024295.1, NP 001019466.1

RefSeg Size: 1596 bp



 RefSeq ORF:
 333 bp

 Locus ID:
 499417

 UniProt ID:
 Q5XIF4

 Cytogenetics:
 20p12

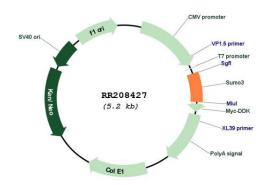
 MW:
 12.5 kDa

**Gene Summary:** Ubiquitin-like protein which can be covalently attached to target lysines either as a monomer

or as a lysine-linked polymer. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. Plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Covalent attachment to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4. Plays a role in the regulation of sumoylation status

of SETX (By similarity).[UniProtKB/Swiss-Prot Function]

## **Product images:**



Circular map for RR208427