

Product datasheet for **RC200241**

Sumo 3 (SUMO3) (NM_006936) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sumo 3 (SUMO3) (NM_006936) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sumo 3
Synonyms: SMT3A; Smt3B; SMT3H1; SUMO-3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200241 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGAGGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGGCCGGGC
 AGGACGGCTCCGTGGTGCAGTTCAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTACTG
 CGAGAGGCAGGGCTTGTCAATGAGGCAGATCAGATTCAGGTTTCGACGGGCAGCCAATCAATGAAACTGAC
 ACTCCAGCACAGCTGGAGATGGAGGACGAGGACACCATCGACGTGCCAGCAGCAGACGGGAGGTGTGC
 CGGAGAGCAGCTGGCAGGGCACAGTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200241 protein sequence
 Red=Cloning site Green=Tags(s)
 MSEEKPKKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETD
 TPAQLEMEDEDTIDVFQQQTGGVPESLAGHSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6143_a02.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_006936

ORF Size: 309 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006936.3](#)

RefSeq Size: 1831 bp

RefSeq ORF: 312 bp

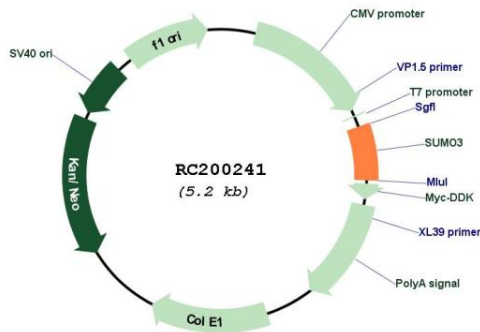
Locus ID: 6612
UniProt ID: [P55854](#)
Cytogenetics: 21q22.3
Domains: UBQ

Protein Families: Druggable Genome

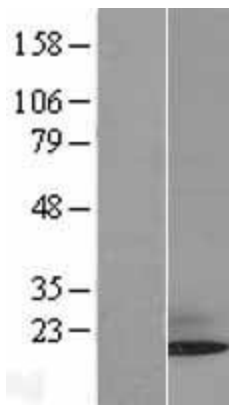
MW: 11.6 kDa

Gene Summary: This gene encodes a member of the small ubiquitin-related modifier (SUMO) family of eukaryotic proteins. The encoded protein is covalently conjugated to other proteins via a post-translation modification known as sumoylation. Sumoylation may play a role in a wide variety of cellular processes, including nuclear transport, DNA replication and repair, mitosis, transcriptional regulation, and signal transduction. Alternatively spliced transcript variants encoding distinct proteins have been described. [provided by RefSeq, Feb 2014]

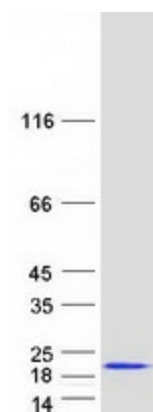
Product images:



Circular map for RC200241



Western blot validation of overexpression lysate (Cat# [LY402068]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200241 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SUMO3 protein (Cat# [TP300241]). The protein was produced from HEK293T cells transfected with SUMO3 cDNA clone (Cat# RC200241) using MegaTran 2.0 (Cat# [TT210002]).