

## Product datasheet for **RC213850**

### SUMO4 (NM\_001002255) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SUMO4 (NM\_001002255) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** SUMO4  
**Synonyms:** dj281H8.4; IDDM5; SMT3H4; SUMO-4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC213850 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCAACGAAAAGCCACAGAAGAAGTCAAGACTGAGAACAACAATCATATTAATTTGAAGGTGGCGG  
GACAGGATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCAGACACCCTTAGTAACTAATGAAAGCCTA  
TTGTGAACCACGGGGATTGTCAGTGAAGCAGATCAGATTCGGATTTGGTGGCAACCAATCAGTGAACA  
GACAAACCTGCACAGTTGAAATGGAAGATGAAGATAAATTGATGTGTTCAACAGCCTACGGGAGGTG  
TCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC213850 protein sequence  
Red=Cloning site Green=Tags(s)  
MANEKPTVEEVKTENNHNILKLVAGQDGSVVQFKIKRQTPLSKLMKAYCEPRGLSVKQIRFRFGGQPISGT  
DKPAQLEMEDEDIDVFQQPTGGVY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDK**V**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6467\\_c08.zip](https://cdn.origene.com/chromatograms/mk6467_c08.zip)

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



ACCN: NM\_001002255

ORF Size: 285 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001002255.2](#)

**RefSeq Size:** 702 bp

**RefSeq ORF:** 288 bp

**Locus ID:** 387082

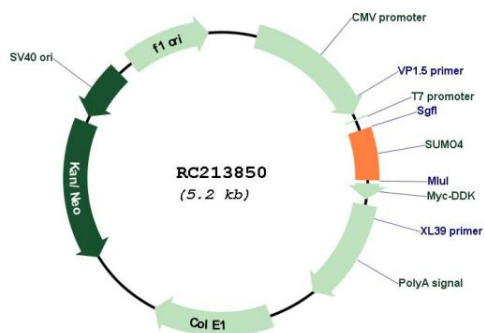
**UniProt ID:** [Q6EEV6](#)

**Cytogenetics:** 6q25.1

**MW:** 10.7 kDa

**Gene Summary:** This gene is a member of the SUMO gene family. This family of genes encode small ubiquitin-related modifiers that are attached to proteins and control the target proteins' subcellular localization, stability, or activity. The protein described in this record is located in the cytoplasm and specifically modifies IKBA, leading to negative regulation of NF-kappa-B-dependent transcription of the IL12B gene. A specific polymorphism in this SUMO gene, which leads to the M55V substitution, has been associated with type I diabetes. The RefSeq contains this polymorphism. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC213850