

Product datasheet for RG222664

OriGene Technologies, Inc.

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Sumo 2 (SUMO2) (NM_001005849) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sumo 2 (SUMO2) (NM 001005849) Human Tagged ORF Clone

Tag: TurboGFP Symbol: SUMO2

Synonyms: HSMT3; Smt3A; SMT3B; SMT3H2; SUMO3

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG222664 representing NM_001005849
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCGACGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTGAACGACAGTTGGAAATGGAGGATGAAGATACAATTGATGTTCCAACAGCAGACGGGAGGTGTC

TAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222664 representing NM_001005849

Red=Cloning site Green=Tags(s)

 ${\tt MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQLEMEDEDTIDVFQQQTGGV}$

Υ

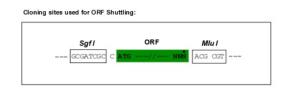
TRTRPLE - GFP Tag - V

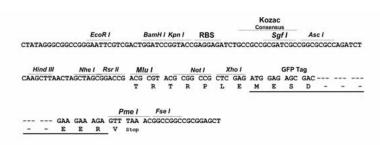
Restriction Sites: Sgfl-Mlul



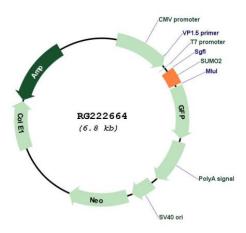


Cloning Scheme:





Plasmid Map:



ACCN: NM_001005849

ORF Size: 213 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

Sumo 2 (SUMO2) (NM_001005849) Human Tagged ORF Clone - RG222664

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 001005849.2</u>

 RefSeq Size:
 994 bp

 RefSeq ORF:
 216 bp

 Locus ID:
 6613

 UniProt ID:
 P61956

 Cytogenetics:
 17q25.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier)

protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not

active until the last two amino acids of the carboxy-terminus have been cleaved off. Numerous pseudogenes have been reported for this gene. Alternate transcriptional splice

variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]