

## Product datasheet for **RG216655**

### Sumo 1 (SUMO1) (NM\_001005782) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sumo 1 (SUMO1) (NM\_001005782) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SUMO1  
**Synonyms:** DAP1; GMP1; OFC10; PIC1; SENP2; SMT3; SMT3C; SMT3H3; UBL1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG216655 representing NM\_001005782  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGACCAGGATAGCAGTGAGATTCACCTTCAAAGTGAAAATGACAACACATCTCAAGAACTCAAAG  
AATCATACTGTCAAAGACAGGGTGTCCAATGAATTCACCTCAGGTTTCTTTGAGGGTCAGAGAATTGC  
TGATAATCATACTCCAAAAGAACTGGGAATGGAGGAAGAAGATGTGATTGAAGTTATCAGGAACAAACG  
GGGGTTCATTCAACAGTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG216655 representing NM\_001005782  
Red=Cloning site Green=Tags(s)  
MSDQDSSEIHFVKMTTHLKKLKESYCRQGVPMNSLRFLFEGQRIADNHTPKELGMEEDVIEVYQEQT  
GGHSTV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001005782.2</a>
<b>RefSeq Size:</b>	1452 bp
<b>RefSeq ORF:</b>	231 bp
<b>Locus ID:</b>	7341
<b>UniProt ID:</b>	<a href="#">P63165</a>
<b>Cytogenetics:</b>	2q33.1
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
<b>Gene Summary:</b>	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 four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Jul 2008]