

Product datasheet for **RG210068**

SENP3 (NM_015670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SENP3 (NM_015670) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SENP3
Synonyms:	SMT3IP1; SSP3; Ulp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210068 representing NM_015670
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAGAGACTATACAAGGACCGGGTCTGGGGCCTGAGCCTCTGGACCCGCATACCCCCAGCTT
 ACTCAAGTCCCAGGCGGGAGCGTCTTCGTTGGCCCCACCTCCCAAACCCGACTCAAGTCAGGTGGAGG
 GTTTGGGCCAGATCCTGGGTGAGGACACAGTCCAGCCAGACGCCTCCCTGTCCCCGACCTCTTTT
 GATGCCTCAGCAAGTGAAGAGGAGGAAGAAGAGGAGGAGGAGGATGAAGATGAAGAGGAGGAAGTGG
 CAGCTTGGAGGCTGCCCAAGATGGAGTCAGCTGGGAACCTCCAGCGGCCCGCCCTCCCGCCCCAC
 TCATCGAAAACTGCTCACAGCGCCGCCGCCGAGCCATGAGAGCCTCCGGATGCTGCTACTCAAAA
 AGCACCTCGTGACATCCACTGGAAGCTTTGGGGGCCACCGGGGCCGGCGGGCCCTCGCACACC
 CCAAGAACCATCTTTCACCCAGCAAGGGGTGCGACGCCACAGGTGCCATCCCCCTGTTGTCGTTTTGA
 CTCGCCCGGGGCCACCTCCACCCGGCTGGGTCTGCTAGGTGCTCTCATGGCTGAGGATGGGGTGA
 GGGTCTCCACCAGTGCCTCTGGGCCCCCATGGAGGAAGATGGACTCAGGTGGACTCCAAAGTCTCCTC
 TGGACCCTGACTCGGGCCTCCTTTCATGTACTCTGCCAACGGTTTTGGGGGACAATCTGGGCCAGAAGG
 GGAGCGCAGCTTGGCACCCCTGATGCCAGCATCCTCATCAGCAATGTGTGCAGCATCGGGGACCATGTG
 GCCCAGGAGCTTTTTCAGGGCTCAGATTTGGGCATGGCAGAAGAGGCAGAGAGGCTGGGGAGAAAGCCG
 GCCAGCACAGCCCCCTGCGAGAGGAGCATGTGACCTGCGTACAGAGTATCTTGGACGAATTCCTTCAAAC
 GTATGGCAGCCTCATACCCCTCAGCACTGATGAGGTAGTAGAGAAGCTGGAGGACATTTCCAGCAGGAG
 TTTTCCACCCCTCCAGGAAGGGCCTGGTGTGCAGCTGATCCAGTCTTACCAGCGGATGCCAGGCAATG
 CCATGGTGAGGGCTCCGAGTGGCTTAAGCGGCACGTGCTGACCATGGATGACTTGGGGACCTTGA
 TGGACAGAACTGGCTCAATGACCAGGTGATGAACATGTATGGAGACCTGGTCATGGACACAGTCCCTGAA
 AAGGTGATTTCTCAATAGTTTCTTCTATGATAAACTCCGTACCAAGGTTATGATGGGGTAAAAAGT
 GGACAAAAACGTGGACATCTTCAATAAGGAGCTACTGCTAATCCCCATCCACCTGGAGGTGCATTGGTC
 CCTCATCTCTGTTGATGTGAGGCGACGCACCATCACCTATTTTACTCGCAGCGTACCCTAAACCGCCG
 TGCCCTAAGCATATTGCCAAGTATCTACAGGCAGAGGCGGTAAGAAAGACCGACTGGATTTCCACCAGG
 GCTGGAAGGTTACTTCAAATGAATGTGGCCAGGCAGAATAATGACAGTACTGTGGTCTTTTGTGTT
 GCAGTACTGCAAGCATCTGGCCCTGTCTCAGCCATTCAGCTTACCCAGCAGGACATGCCAAACTTCGT
 CGGCAGATCTACAAGGAGCTGTGCTCACTGCAAACCTCACTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210068 representing NM_015670
 Red=Cloning site Green=Tags(s)

MKETIQGTGSWGPEPPGPGIIPPAYSSPRRERLRWPPPKPRLKSGGGFGPDGSGTTPARRLPVPRPSF
 DASASEEEEEEEEEDEDEEEVAAWRLLPPRWSQLGTSQRPRPSRPTHKTCQRRRRRAMRAFRMLLYSK
 STSLTFHWKLWGRHRGRRRLAHPKNHLSPPQGGATPQVPSPCRFDSPRGGPPRLLGLGALMAEDGVR
 GSPPVPSGPPMEEDGLRWTPKSPDPDGLLSCTLPNGFQQSGPEGERSLAPPDASILISNVCSIGDHV
 AQELFQGSDLGMAEEAERPGEKAGQHSPLREEHVTCVQSILDEFLLQTYGSLIPLSTDEVVEKLEDFQQE
 FSTPSRKGLVLQLIQSYQRMPGNAMVRGFRVAYKRHVLTMDDLGLTYGQNLNDQVMNMYGDLVMDTVPE
 KVHFFNSFFYDKLRTKGYDGVKRWTKNVDIFNKELLLIPIHLEVHWSLISVDVRRRTITYFDSQRTLNR
 CPKHIAKYLQAEAVKKDRDLDFHQGWKGYFKMNVARQNNDSDCGAFVLQYCKHLALSQPFSTQQDMPKLR
 RQIYKELCHCKLTV

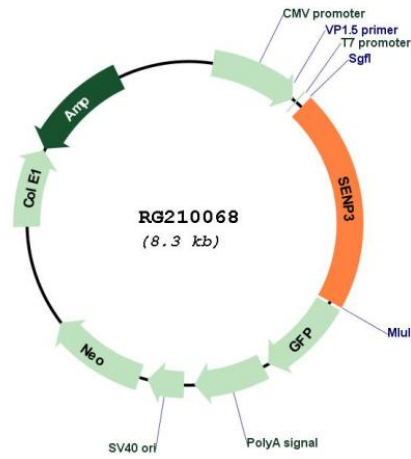
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:


ACCN: NM_015670
 ORF Size: 1722 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:	<ol style="list-style-type: none"> 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_015670.3 , NP_056485.2
RefSeq Size:	2499 bp
RefSeq ORF:	1725 bp
Locus ID:	26168
UniProt ID:	Q9H4L4
Cytogenetics:	17p13.1
Domains:	Peptidase_C48
Protein Families:	Druggable Genome, Protease
Gene Summary:	The reversible posttranslational modification of proteins by the addition of small ubiquitin-like SUMO proteins (see SUMO1; MIM 601912) is required for numerous biologic processes. SUMO-specific proteases, such as SENP3, are responsible for the initial processing of SUMO precursors to generate a C-terminal diglycine motif required for the conjugation reaction. They also have isopeptidase activity for the removal of SUMO from high molecular mass SUMO conjugates (Di Bacco et al., 2006 [PubMed 16738315]).[supplied by OMIM, Jun 2009]