

Product datasheet for **MG210918**

Senp6 (BC061480) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Senp6 (BC061480) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Senp6
Synonyms:	mKIAA0797, Susp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG210918 representing BC061480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCGGGCAAGAGCGGTGGCAGCGCTGGGGCTCTTTTCTGAAAGCTTTGGATAGATCAGAATCTA
 AGAGGGATGGAGGCTTTAAAAATAATTGGAGCTTTGATCATGAAGAAGAAAGTGAAGGAGATGCAGACAA
 AGATGGGGCAAATCTACTCAGTGTAGAAGATGAGGATTCTGAAATCTCAAAGGAAAAAAGTTAAATCGG
 AGATCTGAAATTGTTGCTACTAGTTCTGGTGATTCATCTTGAAGACTTATGTAAGGCGGAGCAAGACTG
 ACGGCTTTAAACTTTGAAAGGCAACCAATTGGACTTAACATGTTAAGCAACAATAAGAAACTGAGTGA
 AAGCACCGCAGCCACAGCATTATGTTCTGGAACGTGGTTCATGGGAGGCGCTTCCATCATGCTCACTCA
 CAGACGCCAGGCATCAGAACAGCGGCTCAGAGGAAAGAATACCCACCTTATGTCCACAAAGCTGAAAACA
 GCCCTGTAATGCTAAGTCATGGCAAGGTGGAGACCATAAATGAAGAAAAGTGAAGAGTCAGAATCATA
 TGTAGAGTCTGAGATTAAGAGGAAAGTCCAGCAGAAGCGGCACTGTAGCACTTACCAGCTTCTCCTCTG
 TCCCTGCCTCAAAGAAGTGTTGACCCATTTAGAGGTTTCTGAACAGCGTGAATATTGCCAAAAATGTG
 GAAAAGAAAAAGAAAATCAGACCAAATGCCAAAGTTGGTATTGTTTTTATAATGATTGCAAAGAAA
 TTGCCGACAAGCCGTAACCTTTGAATGAACCTACTGGACCATGCTAAGAACATCAATTCATCAGAACTCT
 GGAGGACAGAAATCACAAAACACAGGACTAACAGCTAAGAAATTTTATGGGAACAGTGTGGATAAGATTC
 CAATTGATATTTTGGTCACTGTGATGATAGCAGACATAAATACATACAGACAAATGGGAAAAGTCATTTT
 ACCTGGAGGAAAAATACCTAACTCACAAACCCAAAAGAGCGAAAGATAAGCGTGTGAGATTTAACCGAT
 CCAATCATTTTGTCTAGTGATGATGATGACGACGACGATAGGACTAAGAGAAGAGAGAGCAGTCCC
 CGCAGCTGCGGACTCAGCATGCTCCTCACCAGTACCATCTACGGGAAAAGTTGAAGCTGCCTAAATGC
 AGATGCCTGTAGAGCAGAGCAGGAACCCAGAAGCAGTCCAGCAGAGCCTGAGTTAAATACCATTTGCATA
 CCACGAAAAGCAAGAATGAAGGACCAGCTTGGTAAATCCATCAGCACACCTTTAAACCGTGTAAAGTAA
 ACAGTCATGCAGCTTTTATTCACCTATGTCTTAAAGTTGCCAAAAGTTGAAAGTGCATTTTAAACTG
 CCGAAGTATACGAGTTGGAACACTCTTCCGACTGTTGGTAGAGCCTGTAATTTTTTCTTAGAGTCAATC
 ACGATACATCTAGATGGACCAGAAAGTGATCCTGTAGACATTATTTTAAATACCTCTGATCTAACTAAAT
 GTGAATGGTGAATGTCCGAAATTACCAGTAGTGTCTCCAGGCAATACCAGCAGTTTACCAGAAGCT
 GAGCATGCAGCTACAGATGAGTAAAGAAGATAAAGTTTGAATGATTGTAAGGAATAAACAGGATAACA
 AGTTTAGAAGAACAGTACATTATTTAATTTTTCAAAGTGCCTTGATCATCAGGCAGAGGTGGTCTTTG
 AAAGTATCATTACTGACATTGGTATAAGGAATAATGTTCCCACTTTTTTGCAAAAATCTTTTTGACGA
 AGCCAATAGCAGACTTGTGCTGTACAAGAAGCTATGAAGAGAGCATCAAGGAAAAGTGCAGGCAAAAA
 GAGAACAAAGTAAAAGTGTGTCGTTTGAATCTAAAATACAACCTAGAAGCAAACAAGAATTGCAGTTTT
 TTGATGATGACGAAGAAGCTGGGAGAGCCATACAATCTTATTGGCCCTGTAGAAAAATGATAGTATA
 CCCACCACCTCCAGCTAAGGGAGGCATTTCTGTTACTAATGAGGACCTGCACTGTCTAAGTGAAGGAGAG
 TTTTTAAATGATGTTATTATCGACTTTTATTTGAAACTTGGTGCTTGAAAAAGTGAAGAAAGAAGACG
 CTGACCGAATTCATATATTTAGTTCTTTTTCTATAAACGCCTAATCAGAGAGAGAGGAAATCCTGA
 CACAACATACTGTCGATACAACAAAAACGGCATGGGAGAGTAAAACGTGGACACGGCATGTAGATATT
 TTTGAGAAGGACTTTATTTTTGTACCCCTTAATGAAGCTGCACATTGGTTTTTGGCTGTTGTTTGTCC
 CTGTTTTGAAAAACAAAATATGAACCTAATCCTCATTACCATGAAAATGCAGTCATGCAAAAAGTCCA
 AGTGCAGAGGACAGTTGTGTTTCTCTGCCAGTGAAGTGGTGTGTTTACAGAACTCTGCTGCCAAGC
 CTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210918 representing BC061480
 Red=Cloning site Green=Tags(s)

```

MAAGKSGGSAGALFLKALDRSESKRDGGFKNNWSFDHEEESEGDADKDGANLLSVEDEDSEISKGKKLNR
RSEIVATSSGDFILKTYVRRSKTDGFKTLKGNPIGLNMLSNNKKLSESTAATALCSGTVVHGRRFHHHS
QTPGIRTAARKEYPPYVHKAENSPVMLSHGQGGDHIMKKTEESESYVESEIKRKVQQRKHCSTYQLSPL
SPASKKCLTHLEVSEQREYCPKCGKEKENQTKCQSCGIVFHNDLQRNCRQAVTLNEPTGPLLRTSIHQNS
GGQKSQNTGLTAKKFYGNVSKIPIDILVTCDDSRHNYIQTNGKVILPGGKIPKLTNPKERKISVSDLND
PIILSSDDDDDDDRTRKRESTSPQPADSACSSPVPSTGKVEAALNADACRAEQEPRSSPAEPELNTIVI
PRKARMKDQLGNSISTPLKRRKVNSHAAFIHPMSLSCQNFESVILNCRSIRVGTFLRLLVEPVIFSLESI
TIHLDGPESDPVDIILNTSDLTKCEWCNVRKLPVVFLQAIPAVYQKLSMQLQMSKEDKVWNDCKGINRIT
SLEEQYIILIFQTGLDHQAEVVFESIITDIGIRNNVFNFFAKILFDEANSRLVACTRSYEEESIKGNCAQK
ENKVKTVSFESKIQLRSKQELQFFDDDEEAGESHTIFIGPVEKLIYPPPPAKGGISVTNEDLHCLSEGE
FLNDVIIDFYLYLVLEKLLKEDADRIHIFSSFFYKRLNQRERRNPDTTNLSIQQRHGRVKTWTRHVDI
FEKDFIFVPLNEAAHWFLAVVCFPGLEKPKYEPNPHYHENAVMQKLQVQRTVVFLLPVRWVLVHRTLLPS
L
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: BC061480

ORF Size: 2525 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.

RefSeq: [BC061480](#), [AAH61480](#)

RefSeq Size: 4201 bp

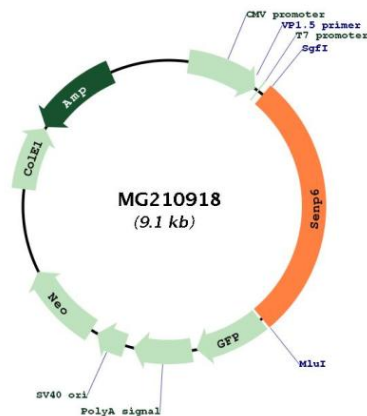
RefSeq ORF: 2525 bp

Locus ID: 215351

Cytogenetics: 9 E1

Gene Summary: Protease that deconjugates SUMO1, SUMO2 and SUMO3 from targeted proteins. Processes preferentially poly-SUMO2 and poly-SUMO3 chains, but does not efficiently process SUMO1, SUMO2 and SUMO3 precursors. Deconjugates SUMO1 from RXRA, leading to transcriptional activation. Involved in chromosome alignment and spindle assembly, by regulating the kinetochore CENPH-CENPI-CENPK complex. Desumoylates PML and CENPI, protecting them from degradation by the ubiquitin ligase RNF4, which targets polysumoylated proteins for proteasomal degradation. Desumoylates also RPA1, thus preventing recruitment of RAD51 to the DNA damage foci to initiate DNA repair through homologous recombination. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210918