

Product datasheet for MC223670

Senp6 (NM_146003) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Senp6 (NM_146003) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Senp6
Synonyms:	2810017C20Rik; E130319N12Rik; mKIAA0797; Susp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223670 representing NM_146003 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGGCAAGAGCGGTGGCAGCGCTGGGGCTCTTTCTGAAAGCTTTGGATAGATCAGAATCTA
AGAGGGATGGAGGCTTTAAAAATAATTGGAGCTTTGATCATGAAGAAGAAAGTGAAGGAGATGCAGACAA
AGATGGGGCAAACTACTCAGTGTAGAAGATGAGGATTCTGAAATCTCAAAGGAAAAAAGTTAAATCGG
AGATCTGAAATTGTTGCTACTAGTCTGGTGATTCATCTTGAAGACTTATGTAAGGCGGAGCAAGACTG
ACGGCTTTAAACTTTGAAAGGCAACCCAAATTGGACTTAACATGTTAAGCAACAATAAGAAACTGAGTGA
AAGCACCGCAGGCACAGCATTATGTTCTGGAAGTGTGGTTCATGGGAGGCGCTTCCATCATGCTCACTCA
CAGACGCCAGGCATCAGAACAGCGGCTCAGAGGAAAGAATACCCACCTTATGTCCACAAAGCTGAAAAA
GCCCTGTAATGCTAAGTCATGGCCAAGGTGGAGACCATAAATGAAGAAAACTGAAGAGTCAGAATCATA
TGTAAGTCTGAGATTAAGAGGAAAGTCCAGCAGAAGCGGCAGTGTAGCACTTACCAGCTTCTCCTCTG
TCCCCTGCCTCAAAGAAGTGTGGACCCATTTAGAGGTTTCTGAACAGCGTGAATATTGCCAAAAATGTG
GAAAAGAAAAAGAAAATCAGACCAATGCCAAAGTTGTGGTATTGTTTTTTCATAATGATTTGCAAGAAA
TTGCCGACAAGCCGTAACCTTTGAATGAACCTACTGGACCTTGTGCTAAGAACATCAATTCATCAGAACTCT
GGAGGACAGAAATCACAAAACACAGGACTAACAGCTAAGAAATTTTATGGGAACAGTGTGGATAAGATTC
CAATTGATTTTTGGTCACTGTGATGATAGCAGACATAATTACATACAGACAAATGGGAAAGTCATTTT
ACCTGGAGGAAAAATACCTAACTCACAAACCCAAAAGAGCGAAAGATAAGCGTGTGAGATTTAAACGAT
CCAATCATTTTGTCTAGTGTGATGATGACGACGACGATAGGACTAAGAGAAGAGAGAGCAGCAGTCCC
CGAAGCCTGCCGACTCAGCATGCTCCTCACCAGTACCATCTACGGGAAAAGTTGAAGCTGCACTAAATGC
AGATGCCTGTAGAGCAGAGCAGGAACCCAGAAGCAGTCCAGCAGAGCCTGAGTTAAATACCATTGTCATA
CCACGAAAAGCAAGAATGAAGGACCAGCTTGGTAATTCATCAGCACACCTTTAAAACGTCGTAAGTAA
ACAGTCATGCAGCTTTTATTCACCTATGTCTTTAAGTTGCCAAAACCTTTGAAAGTGTCAATTTAAACTG
CCGAAGTATACGAGTTGGAACACTCTTCCGACTGTTGGTAGAGCCTGTAATTTTTCTTTAGAGTCAATC
ACGATACATCTAGATGGACCAGAAAAGTGATCCTGTAGACATTATTTAAATACCTCTGATCTAACTAAAT



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GTGAATGGTGAATGTCCGAAATTACCAGTAGTGTTTCTCCAGCAATACCAGCAGTTTACCAGAAGCT
 GAGCATGCAGCTACAGATGAGTAAAGAAGATAAAGTTTGGAAATGATTGTAAGGAATAAACAGGATAACA
 AGTTTAGAAGAACAGTACATTATTTTAAATTTTCAAACGGCCTTGATCATCAGGCAGAGGTGGTCTTTG
 AAAGTATCATTACTGACATTGGTATAAGGAATAATGTTCCCACTTTTTTGCAAAAATCTTTTTGACGA
 AGCCAATAGCAGACTTGTGCGTGTACAAGAAGCTATGAAGAGAGCATCAAAGGAACTGCGCGCAAAA
 GAGAACAAGTAAAACGTGTGCGTTTGAATCTAAAATACAACCTAGAAGCAAACAAGAATTGCAGTTTT
 TTGATGATGACGAAGAAGCTGGGAGAGCCATACAATCTTCATTGGCCCTGTAGAAAAATGATAGTATA
 CCCACCCTCCAGCTAAGGGAGGCATTTCTGTTACTAATGAGGACCTGCACTGTCTAAGTGAAGGAGAG
 TTTTAAATGATGTTATTATCGACTTTTATTTGAAATACTTGGTCTTGAAAAACCTGAAGAAAGAAGACG
 CTGACCGAATTCATATATTTAGTCTTTTTTCTATAAACGCCTTAATCAGAGAGAGAGGAGAAATCTCGA
 GACAATAATCTGTGATACAACAAAACGGCATGGGAGAGTAAAAACGTGGACACGGCATGTAGATATT
 TTTGAGAAGGACTTTATTTTGTACCCCTAATGAAGCTGCACATTGGTTTTTGGCTGTTGTTTGTTC
 CTGTTTTGAAAAACAAAATATGAACCTAATCCTCATTACCATGAAAATGCAGTCATGCAAAAACCTCC
 AAGTGCAGAGGACAGTTGTGTTCTTCTGCCAGTGAGATGGGTGCTTGTTCACAGAACTCTGCTGCCAAG
 CCTGTGATCAAGAAGATGTTAAATAGAAAACATTGCTTAGCTGTGACTGATTCGAGTGTGCACAGGAAG
 AAAGTGAGCCTTGTACCAGGAGAAACGCATACAGTGTAAGTGTAGTATGAAAAAAAAAATCATGCTAT
 CAATGAAAATGAAGAACCAAGTAAACGGAGAATCTACGTGCCAGGACATTTGTGATAGAACCACAAAGTGA
 AATGGCCTCCGGGATGAATGCTTCAGTTCTGTACATCATCCAGATGCCTTAAGCAAAAACAGACTAACT
 ACGGTGATCAGTCAGCAGACGGTGGGAAGCTGCTTGAAGATGAGCTCATTGACTTCTCAGAGGATCAGGA
 TGACCCGGATGATAGCAGTGTACGGACTCCTTGCTGATGAAAACACTACAGTTCAGAAATAGGACAGTGG
 CATTTAAAGCCTACTGTCTGTAACAACCTTGTATCCTCCTTATGGACTCACTCAGAGGCCCTTCTCGTT
 CAAATGTTGTCAAATTTAAGAGAGTATTTAGAAGTGAATGGGAGGTGAAAAAGGAAGCAAAAAGAAG
 TTTTCCAAAGATGTTATGAAAGGGTCCAACCCAAAAGTCCACAACAGAACTTCAGTACTGTGGT
 GTCTATGTGCTGCAGTATGTAGAGAGCTTTTTTGAAGTCCAGTACTAAATTTTGAAGTCCCTATGAATT
 TGATGAACTGTTTTCTCCCCCAGAATGAAAACAAAAGAGAAGAAATCCGAAACATAATTTTGAAGCT
 ACAGGAATCACAGAGTAAAGACAAGAAGCTGCTGAAGGACTCCTTAGCAGAGACGCTCCTTAGGGACGGA
 GCAGAGCAGTACGCCAGCCAGCGGTGGCTCAGAGTGA

ACGGTACGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_146003

Insert Size:

3399 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_146003.2](#), [NP_666115.2](#)

RefSeq Size: 4938 bp

RefSeq ORF: 3399 bp

Locus ID: 215351

UniProt ID: [Q6P7W0](#)

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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.