

Product datasheet for **MG224185**

Senp3 (NM_030702) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Senp3 (NM_030702) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Senp3
Synonyms:	AA408656; Smt3ip; Smt3ip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224185 representing NM_030702
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGAGACTATACAGGGGACCGGGTCTTGGGGCCTGAGCCTCCGGGACCCGGCACCCTTACTCAA
 ATCCCAGGCGAGAGCGTCTTCGTTGGCCCTACCCCTAAGCCCCGGCTCAAGTCCGGTGGTGGTTTTGG
 GCCAGATCCTGGGTCTGGGACCACAGTCCAACTAGACGCCTCCCTGCCCGCCGATCTTTTGTATGCC
 TCAGCTAGTGAAGAAGAGGAAGAGGAAGAGGAGGAAGATGAGGAGGAAGTAGCAGCTTGGAGGCTACCCC
 CTAGGTGGGGCCAACTGGGGCCCTCCAGCGCTCTCGAGCTCTCCGACCCTCTCATAGAAAACTGCTC
 ACAGCGCCGGCGCCGAGCCATGAGAGCCTTCCAGATGCTGCTCTACTCAAAAAGCACCTCGTGACATTC
 CACTGGAAGCTTTGGGGCGCCACCGAGGCCGGCGGGAACCTCGCGCACCCCAAGAACCATCTCTCAC
 CCCAGGAAGGGGTGCAACGCCACAGTGCCATCACCTGCTGCTGTTTTGACTCCCCCGGGGCTACC
 CCCACCCCGCTGGTCTGCTAGGTGCTCTCATGGCAGAGGATGGGATGAGAGGGTCTCCACCAGTGCCC
 TCTGGGCCCCCATGGAGGAAGATGGACTAAGGTGGACCCAAAGTCTCCTCTGGACCCTGACTCGGGCC
 TCCTCTCATGTACTCTACCCAATGGTTTTGGGGGACTGTCTGGTCTGAAGGGGAGCGCAGCCTGGCACC
 CCCTGATGCCAGCATACTCATCAGTAATGTGTGCAGCATTGGAGACCACGTGGCTCAGGAACTTTTTAG
 AGCTCTGACTTGGGCATTGCAGAAGAGGCAGATCGGACTGGGAGAAAAGCTGGCCAGCATAGCCCCCTTC
 GGGAGGAACATGTGACCTGTGTGCAGAGTATCTTAGATGAATTCCTCAAACCTTATGGCAGCCTCATCCC
 TCTCAGCACTGATGAAGTTGTAGAGAAGTTGGAGGACATTTCCAGCAGGAGTCTCTACACCCTCAAGG
 AAGAGTCTGGTACTACAGCTGATCCAGTCTTATCAGCGGATGCCAGGCAACGCTATGGTAAGGGGCTTCC
 GGGTATCCTATAAGCGACACGTGCTCACCATGGATGACTTGGGTACCTTATATGGACAGAACTGGTCAA
 TGACCAGGTGATGAACATGTATGGAGATCTGGTCAATGGACACAGTCCCTGAAAAGGTGCATTTCTTCAAC
 AGCTTCTTCTATGATAAACTCCGTACCAAGGGTTATGATGGGGTAAAGAGGTGGACCAAAAATGTGACA
 TCTTCAATAAGGAATTACTGCTAATCCCATCCATCTGGAGGTGCACTGGTCCCTTATCTCAGTTGATGT
 AAGGCGACGTACCATCACCTATTTTACTCCAGCGAACTCTAAATCGCCGCTGCCCTAAGCATATTGCC
 AAGTATCTACAGGCGAGGACGTCAAAAAGACCGACTGGACTTCCATCAGGGCTGGAAAGGTTACTTCA
 AAATGAATGTGGCCAGGCAGAATAATGACAGTACTGTGGTGCCTTTGTATTACAGTACTGCAAGCACCT
 GGCCCTGTCTCAGCCATTCAGCTTACCCAGCAGGACATGCCAAACTCCGTCGTCAGATCTACAAGGAA
 CTGTGTCCTGCAAACTCACTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224185 representing NM_030702
 Red=Cloning site Green=Tags(s)

MKETIQGTGSWGPPEPPGPTTYSNPRRERLRWPLPPKPRKSGGGFGPDPGSGTTVPTRRLPAPRPSFDA
 SASEEEEEEEEEDEEEVAAWRLPPRWQLGASQRSRALRPSHRKTCQRRRRAMRAFQMLLYSKSTSLTF
 HWKLWGRHRRRRNLAHPKNHLSPEGGATPQVPSPCCRFDSRGLPPRRLGLLALMAEDGMRGSPVP
 SGPPMEEDGLRWTPKSPDPDGLL SCTLPNGFGGLSGPEGERSLAPPDASILISNVCSIGDHVAQELFQ
 SSDLGIAEEADRTGEKAGQHSPREEHVTCVQSILDEFLLQTYGSLIPLSTDEVVEKLEDIFQQEFSTPSR
 KSLVLQLIQSYQRMPGNAMVGRFRVSYKRHLV TMDLGLTYGQNLNDQVMNMYGDLVMDTVPEKVVHFN
 SFFYDKLRTKGYDGVKRWTKNVDIFNKELLLIPIHLEVHWSLISVDVRRRTITYFDSQRTLNRRCPKHIA
 KYLQAEAVKKDRDLDFHQGWKGYFKMVARQNNSDCGAFVLQYCKHLALSQPFSTQQDMPKLRRIYKE
 LCHCKLTV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_030702

ORF Size: 1704 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: [NM_030702.4](#), [NP_109627.3](#)

RefSeq Size: 2442 bp

RefSeq ORF: 1707 bp

Locus ID: 80886

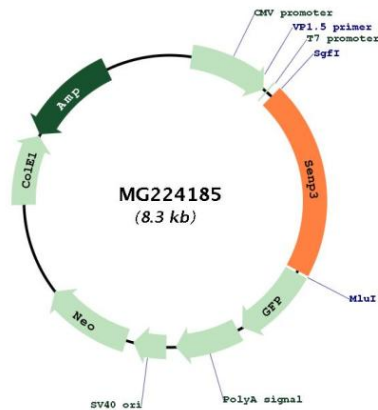
UniProt ID: [Q9EP97](#)

Cytogenetics: 11 B3

Gene Summary:

Protease that releases SUMO2 and SUMO3 monomers from sumoylated substrates, but has only weak activity against SUMO1 conjugates. Deconjugates SUMO2 from MEF2D, which increases its transcriptional activation capability. Deconjugates SUMO2 and SUMO3 from CDCA8. Redox sensor that, when redistributed into nucleoplasm, can act as an effector to enhance HIF1A transcriptional activity by desumoylating EP300. Required for rRNA processing through deconjugation of SUMO2 and SUMO3 from nucleophosmin. Plays a role in the regulation of sumoylation status of ZNF148. Functions as a component of the Five Friends of Methylated CHTOP (5FMC) complex; the 5FMC complex is recruited to ZNF148 by methylated CHTOP, leading to desumoylation of ZNF148 and subsequent transactivation of ZNF148 target genes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224185