

Product datasheet for **MR208955**

Senp3 (NM_001163571) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Senp3 (NM_001163571) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Senp3
Synonyms:	AA408656; Smt3ip; Smt3ip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208955 representing NM_001163571
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGAGACTATACAGGGGACCGGGTCTTGGGGCCTGAGCCTCCGGGACCCGGCACCCTTACTCAA
 ATCCCAGGCGAGAGCGTCTTCGTTGGCCCTACCCCTAAGCCCGGCTCAAGTCCGGTGGTGGTTTTGG
 GCCAGATCCTGGGTCTGGGACCACAGTGCCAAGTACAGCGCTCCCTGCCCGCCGATCTTTTGTAGTCC
 TCAGCTAGTGAAGAAGAGGAAGAGGAAGAGGAGGAAGATGAGGAGGAAGTACGAGCTTGGAGGCTACCCC
 CTAGGTGGGGCAACTGGGGCCTCCAGCGCTCTCGAGCTCTCCGACCCTCTCATAGAAAACTGCTC
 ACAGCGCCGGCGCCGAGCCATGAGAGCCTTCCAGATGCTGCTCTACTCAAAAAGCACCTCGTGCATTC
 CACTGGAAGCTTTGGGGCGCCACCGAGGCCGGCGGGAACCTCGCGCACCCCAAGAACCATCTCTCAC
 CCCAGGAAGGGGTGCAACGCCACAGTGCCATCACCTGCTGCTGTTTTGACTCCCCCGGGGCTACC
 CCCACCCCGGCTGGTCTGCTAGGTGCTCTCATGGCAGAGGATGGGATGAGAGGGTCTCCACCAGTGCCC
 TCTGGGCCCCCATGGAGGAAGATGGACTAAGGTGGACCCAAAGTCTCCTCTGGACCCTGACTCGGGCC
 TCCTCTCATGTACTCTACCCAATGGTTTTGGGGGACTGTCTGGTCTGAAGGGGAGCGCAGCCTGGCACC
 CCCTGATGCCAGCATACTCATCAGTAATGTGTGCAGCATTGGAGACCACGTGGCTCAGGAACTTTTTCAG
 AGCTCTGACTTGGGCATTGCAGAAGAGGCGAGATCGGACTGGGAGAAAAGTGGCCAGCATAGCCCCCTTC
 GGGAGGAACATGTGACCTGTGTGCAGAGTATCTTAGATGAATTCCTCAAACCTTATGGCAGCCTCATCCC
 TCTCAGCACTGATGAAGTTGTAGAGAAGTTGGAGGACATTTCCAGCAGGAGTCTCTACACCCTCAAGG
 AAGAGTCTGGTACTACAGCTGATCCAGTCTTATCAGCGGATGCCAGGCAACGCTATGGTAAGGGGCTCC
 GGGTATCCTATAAGCGACACGTGCTCACCATGGATGACTTGGGTACCTTATATGGACAGAAGCTGGTCAA
 TGACCAGGTGATGAACATGTATGGAGATCTGGTATGGACACAGTCCCTGAAAAGGTGCATTTCTTCAAC
 AGCTTCTTCTATGATAAACTCCGTACCAAGGGTTATGATGGGGTAAAGAGGTGGACCAAAAATGTGACA
 TCTTCAATAAGGAATTACTGCTAATCCCATCCATCTGGAGGTGCACTGGTCCCTTATCTCAGTTGATGT
 AAGGCGACGTACCATCACCTATTTTACTCCAGCGAAGTCTAAATCGCCGCTGCCCTAAGCATATTGCC
 AAGTATCTACAGGCGAGGCGAGTCAAAAAGACCGACTGGACTTCCATCAGGGCTGGAAAGGTTACTTCA
 AAATGAATGTGGCCAGGCAGAATAATGACAGTACTGTGGTGCCTTTGTATTACAGTACTGCAAGCACCT
 GGCCCTGTCTCAGCCATTCAGCTTACCCAGCAGGACATGCCAAACTCCGTCGTCAGATCTACAAGGAA
 CTGTGTCAGTCAAACTCACTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208955 representing NM_001163571
 Red=Cloning site Green=Tags(s)

MKETIQGTGSWGPEPPGPGTTYSNPRRERLRWPLPPKPRKSGGGFGPDPGSGTTVPTRRLPAPRPSFDA
 SASEEEEEEEEEDEEVAAWRLPPRWQLGASQRSRALRPSHRKCSQRRRRAMRAFQMLLYSKSTSLTF
 HWKLWGRHRRRRNLAHPKNHLSPEGGATPQVPSPCCRFDSRGLPPPRLGLL GALMAEDGMRGSPVPV
 SGPPMEEDGLRWTPKSPLDPDGLL SCTLPNGFGGLSGPEGERSLAPPDASILISNVCSIGDHVAQELFQ
 SSDLGIAEEADRTGEKAGQHSPLREEHVTCVQSILDEF LQTYGSLIPLSTDEVVEKLEDIFQQEFSTPSR
 KSLVLQLIQSYQRMPGNAMVGRFRVSYKRHLV TMDLGLTYGQNLNDQVMNMYGDLVMDTVPEKVHFFN
 SFFYDKLRTKGYDGVKRWTKNVDIFNKELLLIPIHLEVHWSLISVDVRRRTITYFDSQRTLNRRCPKHIA
 KYLQAEAVKKDRLDFHQGWKGYFKMNVARQNNSDCGAFVLQYCKHLALSQPFSTQQDMPKLRRQIYKE
 LCHCKLTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001163571

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_001163571.1](#), [NP_001157043.1](#)

RefSeq Size: 2230 bp

RefSeq ORF: 1707 bp

Locus ID: 80886

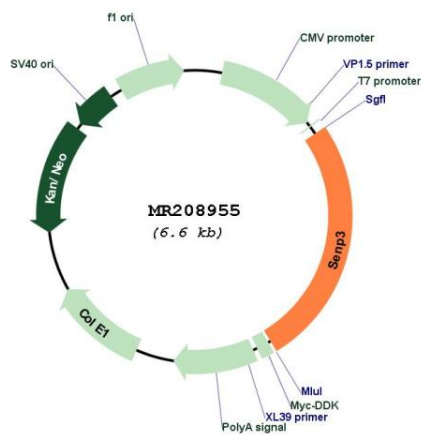
UniProt ID: [Q9EP97](#)

Cytogenetics: 11 B3

MW: 64.4 kDa

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 MR208955