

Product datasheet for **MR210453**

Senp5 (NM_177103) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Senp5 (NM_177103) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Senp5
Synonyms:	6230429P13Rik; A730063F07Rik; A1851888; BB189556; SMT3IP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210453 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAAAACAGAAGAAATTCTATGGAAGAAAGGAATCACTTAGCCTTTTCTGAGAAATGGAATGCTG
GGTTTGAAGCTTTAAGAAGTTCTACTTTCCCAAACTTGTGCTTTCTGAAAGCTAAGCTGGGAAGGCC
AGTTGCTTGGCATCGGCAGGTGAAGCATTTCAGTGTAATAAGGGTCTTACATCCAGAAAAACATGGATT
CAAGATGTACCGTTTTGTTCAAAGACAAAGTCTGGACTGGCTACTCAAAATGTTAGTACTTTGTACCCCA
AAGTGAAGAAAGGACAGTAAGCACTTCAATTCCTCAAGGAGTCTCCTGAACTCCAAGCAGATAA
ATTACTGTCTTCAGCAAAGAGCTTGACCATAAATACTGCAGAGAGAAAAGCCTTCTGAAGGCAGCTCCT
GGCTTGCAGCAAACACTGTTTTAGGTAGAGCCAATGGTCACGAACCTACCACAGACCCACAAGCTTCAG
ACTTTCCCATGAAGTTCAGTGGGAGAGCCAAAGTCCAGGTGACAGTGGCAAGACTGTGGTCTTGAACAA
ACATAGAAAGCGAGTTTGTGATGGCTGCTACCAAGGGCTAGAGCACCACAGGAACAGGAGACCCCTGATT
CCAAAGCAGTTCAGCTTAACCAACACCGAAGAGTCAGAGCGTCTCTGATGATGTATGAGAACTATCCA
TGATTAGATTTCCGTATAGGATTTTCAGATCCCAGCACTTCAGAACGAAAAGCAGAGTTTGAAGCTAAG
AAAGGCCAGCGAAGTTGGGTACAGAAGTCACTGGGGACCATCAAGAGAACCTTAGGGATAATAACACT
GAGGGTGACAATTGCAATCCAGTCCCTTCCCTAGAACCTAAAGATCCTTGTGCGGTGTCAGCCATACTTTC
CAGACATGGACAGCAGTGTGTGGGGAAGGAAAAAAGTGCACGTGCCTGATGGTCACACTAAAGAAAA
CCCTGTATTGGACAAGGAGCATGGTTTAGATGACACATTCCTGACCAGCAGAAATGGCTGTGTTGCATAC
AATTGGGACCAGTCATCCTTTGCTCCTAAGTGGGAATGTACAGAGCAAATTCATGAAATCCCTTTAATGG
AACATCCTTCTAGTGACAAGTTCTCAGAACTGAAAGAGCACTTATGGCGCTGGGTGAGGAAAGCGG
GACAAGTGTGTGAGCGATGACAGAGAGAACTGCCAGTGTCTGGAGCAGACAAATCTGTGAGTAGTGTA
GACGGGCTGTGTCTGAGGAGCCTGCCAGAATGAGAAGTCCAGATGGAGGAGGATGGGTCTCTGAAGC
AGAGCATTCTTAGTTCTAAGCTGCTGGACCACCCTTACTGTAAGTCCACTGGATGCTCCCTTGTGTG
CAGTGAACCCAAAGTAGAAAACCAATGTCAGGTGGCAAGAGCAGCCAGACAGCGTCTCCAGTGGATGAT
GAGCAGCTCTCAACCTGCCTTTCTGGATTCTAGATGAGGTTATGAAAAAGTATGGAAGTCTGGTCCCAC
TCAGTAAAAAGATGCTCCTTGGGAGATTAAGATGCTTTAATGAAGACTTTTCTAATAGAAAACCATT
CATCAATAGGGAATAACAACTACCGGCCAGACATCAAAAGTGAAGTCCGCATCTTCTACAATAAG
CACATGCTGGATATGGACGATCTGGCACTTTGGATGGGCAGAACTGGTTGAATGACCAGGTTATTAATA
TGTATGGCGAGCTGATAATGGATGCAGTCCCAGACAAGTCCACTTCTCAACAGCTTTTCCATAGACA
GCTGGTAAACAAAGGCTATAATGGAGTTAAAGATGGACGAAGAAGTGGACTTGTTAAAAAAGAGTCTT
CTGTTGATTCCCATCCACCTGGAGTCCACTGGTCTCTCATTACTGTGACTCTCCAGCCGGATTATTT
CATTTTATGATCCCAAGGCATTCATTTAAATTTCTGTGTAGAGAATATAAGAAAGTATTTGCTGACTGA
AGCCAGAGAAAAAATAGACCTGAATTTCTCAGGGTTGGCAGACTGCTGTTACAAAGTGTATTCCACAA
CAGAAAAATGACAGTACTGTGGAGTCTTTGTGCTCCAGTACTGCAAGTGCCTCGCCCTAGAGCAGCCTT
TCCAGTTTTCTCAAGAAGACATGCCTCGTGTCCGAAGAGGATCTATAAGGAGCTGTGTGAGTGCCGGCT
CCTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210453 protein sequence
 Red=Cloning site Green=Tags(s)

MKKQKKILWKKGIHLAFSEKWNAGFGSFKKFYFPQNL CFLKAKLGRPVAWHRQVKHFQC�KGLHIQKTWI
 QDVPFCSKTKSGLATQNVSTLYPKVKKRDSKHF I SSSRSL LKLQADKLL SAKSLDHKYCREKSL LKAAP
 GLSANTV LGRANGHEPTTDPQASDFPMKFSGESQSPGDSGKT VVLNKHKRKRVCHGCYQGLEHHRNRRLI
 PKQFQLNQHRRVRASLMMYEKLSMIRFRYRIFRSQHFRKTSRVCKLRKAQRSWVQKVTGDHQENLRDNNT
 EGDNCNPVPSLEPKDPCRCQPYFPDMDSAVGKGKNCHVPDGH TKENPVL DKEHGLDDTFFDQNGCVAY
 NWDQSSSCP KWECTEQIHEIPLMEHPSSDKFSPETERALMALGQESGTS AVSDDREKLPVSGADKSVSSV
 DGPVSEEP AQENFQMEEDGSLKQSILSSKLLDHPYCKSPLDAPLLCSEPKVENQMSGGKSSQTASPVDD
 EQLSTCLSGFLDEV MKYGSVPLSEKDV LGR LKDVFNEDFSNRKPF INREITNYRARHQKCNFRIFYNK
 HMLDMDDLATLDGQNWLNQVINMYGELIMDAVPDKVHFNFSSFFHRQLVTKGYNGV KRWTKKVDLFKKS L
 LLIPIHLEVHWSLITVTLSSRIISFYDSQGIHFKFCVENIRKYLLTEAREKNRPEFLQGWTAVTKCIPQ
 QKNDSDCGVFLQYCKCLALEQPFQFSQEDMPVRVKRIYKELCECRLLD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_177103

ORF Size: 2250 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_177103.4](#)

RefSeq Size: 6352 bp

RefSeq ORF: 2250 bp

Locus ID: 320213

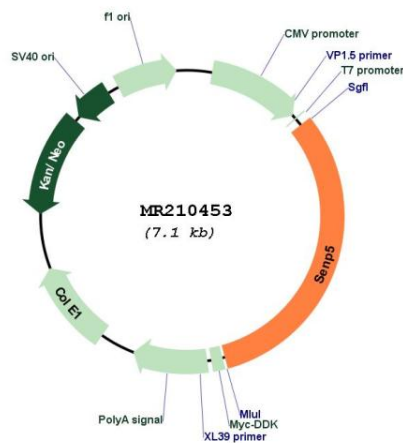
UniProt ID: [Q6NXL6](#)

Cytogenetics: 16 B2

MW: 86.1 kDa

Gene Summary: Protease that catalyzes two essential functions in the SUMO pathway; processing of full-length SUMO3 to its mature form and deconjugation of SUMO2 and SUMO3 from targeted proteins. Has weak proteolytic activity against full-length SUMO1 or SUMO1 conjugates. Required for cell division.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210453