

Product datasheet for **RR209053**

Senp7 (NM_001105888) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Senp7 (NM_001105888) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Senp7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209053 representing NM_001105888 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAGGGCCAGGCCTGGGCGTGGCGAGCTTCGTGACAGATTGTTACAGAGGGAAAAAGAAAAAGT
CATCACCTGCTGATTTACAGAAGATAACGAAGTTGTTAACTGTTAAAGTCAGAGGATGTTCTTGCTCAGTC
ACCACTGCCAAGCTCAGAGGCTCAGAATGCTGGTGGACAAGAAGCCTAAGAAATAAAGTCATCTGTCTA
GACCACAAAACCAAAAAGCTGCCATGGGTGTCCTCCTAAAGCATTACCAAAAAGGCATCTCAAAGTTA
TGGTACGAATGTTCTATGGACGGACTTAGGACGAGAATTCAGAAAGACCCTGCCTAGAAATGATGCTAA
GTTATGTGATACCAGCAAGGTGCAATCAGACTCATTGCCTTCGACATCTGTTGACAGCATAGAGACATGT
CAAAGATTAGATCCTCTTACCAAAGCCTTAATTTATCTGAAAGGATACCCAGAGTTATATTGACGGATA
TTCGGCAGACAGAATTAGGAAGAAAATACTTAAAGATTCCATCTGTAAGTGGCCAGTTTGGAGTATAC
AGCCAGCCGAAGTCAGAGGAACCTTCTCGTCAGCCGATGGCAGCTTAGAGTCTTGTGAGAATGTAAT
CATCTCAAGAGCTTTTTATCTGAAAGGGGCTCAAACCAAGTAGGACAGGTGACATTTCTGCAAAGGAGG
CTGCAAAATGGGAGACAGGAGCAGGGGATGATGGAGACATCGCACCTGAGATGGTTACCCCTCAGTCTAA
AGACTTTAATAGTGGAAATAAAGGTGATTATCATGAAGAGGGGACCAGCAACAAGAACACTTCATATTCT
CATTACAGAAACGGACCACTCCAGTTTCCAGGAAGAGAAAGAAAAGGGGAAGAAGTAATTTTCATAATT
CTCATAATCCTAAGTCTTCTGTGGATAAGTCAACAGAATATAAAAAGAAGAAGAAAATGAGTCTACAGT
CTCCAGTAAGCTTGAAGAGTCCAATGAAGACTCTCACCAGGACCCAGCACCACCCGAAGGACTCACTCCG
GACTCTTTGGAGACCGAGGCCACTAACGTGTGCTCATTCTGTTGTTTCCAGGACCCAGATGTTAGTGTGCT
CTGGAAGGGCTGCTCACCAACAAAAGCTCGGAGAGCTCTGTTTCTAGTGAAGTGGCAGAGAATTTCTC
GGCGGCTGAGAAGGGTGAGGCATCGACTGTTAAAGGAAGCACCTCCTCCAGGAGGAAACAGTGAAGAGAAC
CAGTTGTTGATGTCAGCTGAGCCAATTGTTGTTTCCAGTGACGAAGAAGGACCCGTTGAACATAAGAAT
CAGTAATTCTAAAATTACAGCCTTCTCAAGATTATGAATTTATGAGTGAATAATCAGACTACTTCTGATCC
ACAGTTGTCAGAAATTAATGCTGGGTGCATGTGAATCTGTACAGGTATCATCTGAATTATGTCGTACAAT
CCTGACATGGAAAACATTTCTGTATTAACCTAATAGTGAATGGATCTGAAATGGATTTTCATATTTA
CTTGTGTGATATTGGTAAAATAAAGGAACCTCAAAGGTTGTATCACGTTCAAAAAGAAGTATATTTAA
AATCCCATTTCAAGTGTCTATGAATGAGATTTCACTGACTGTGGACACGGCACGTTTAAAGAGGTTCCGG



TTATGGGAAAGCAAGGATGATGACCACAGTAAGAGGAGCCATGCTATCCTTTTCCTCTGGGTTTCCTCAA
 ACTACCTTCAAGACATTCAGACCCAGTTAGAAAACCCATGCTAAGCCAGCAATCAAAGCCAATGAATT
 CATTTCCTTGAGTTAAATAGTCCCATTTCACAAAGAGAAGAATTGAAATTGAAAGATATTATGATGGAA
 ATCGGTGCGACAAATGGAGAATTACAGCTCTCCTGTCCGTTGCCCTGGGTTCAAGGCATTTCTTTGTTTC
 AGGATCTCTCCACAAGAAATCTTTTCTTCACTATTACTGTGCTTCAAGTTCCTCTTTCCCTGCTGT
 TGCTGGAGCAGACATGAAGAAGAAGCCAGTGTCTCAGCCCTCAAATGCAGATGTCGTCAAGCCTACTTAC
 ACCTTTTACATAAAACAAAGCAGTGGCTGCTACTGCTACTGTCTATTACTTCAAGTCCAGATGAAGAATGGC
 GAGAAGTCAGGAACACTGGACCCGTTGAGAAGTTGATTGTATCCTCCACCACCTACTAAGGGAGGCTT
 GGGAGTAACTAATGAAGATCTGGAATGTTTAGAAGAAGGAGAATTTCTAACGATGTGATCATTGACTTT
 TACCTTAAGTATCTTCTTTGGAGAAGGCATCAGATGAACCTGTTGAGCGAAGCCACATTTTGTAGCT
 TTTTCTATAAATGCTTGACAAGAAAGGAAAATAACTTAACAGAAGATAATCCAGATCTTTCAGTGGCTCA
 GAGGAGACACAGAAGAGTGAGAACATGGACTCGTCACATAAATTTTTAATAAAGACTACATCTTTGTA
 CCTGTAATGAATCGTCTCACTGGTATCTTGCAGTCATTTGTTTCCCATGGCTAGAAGAAGCTGTGTATG
 AAGATTTCCACAACTGTGTCCCAAGAGTTCAGGACCAGCAGTCTCAACATGACAACAAAACGATAGA
 TAATGATCCACACACCCTTCAACTGTGTTACAGAGTGCAGAGGAGTCCCAAAGTACCGAGACGAGTATG
 TCAGTACCAAAGAAAATGTGTAAGCGGCCATGTATTCTCATACTAGACTCCCTGAAAGCTGCTCCATAC
 AAAACACAGTTCAGAACTTGCAGAGTATTTGGAGGTAGAGTGGGAAGTTAAACGAAAAACACACCGTGA
 ATTCAGTAAAACAAACATGGTCGACCTATGCCCAAAGTCCCTAAGCAGGACAACAGCAGCGACTGTGGG
 GTGATTTGCTGCAGTATGTGGAGAGCTTCTCCAGGATCCCATTGTTAACTTTGAACTTCCAATCACT
 TGGAGAAATGGTTTCTCGCCATGTAATAAGACCAAACGAGAAGATATTCGAGAGCTCATTTTGAACCT
 TCATTTACAGCAACAGAAGGGCAGCAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209053 representing NM_001105888
 Red=Cloning site Green=Tags(s)

MDRARPGRRRASSEIVTEGKRKSSPADLKQITKLLTVKSEDVLAQSPLPKLRGSECWTRSLRNKVICL
 DHKTTKAAHGCPKALPKRHLKVMLTNVLWDLGREFRKTLPNDAKLCDTSKVQSDSLPSTSVDSIETC
 QRLDPLHQSLNLSERIPRVILDIRQTELGRKYLKIPSVTEASLSDTASPKSEELSSADGSLESCQNVN
 HLKSFLLSERGSKPSRTGDISAKEAANGRQEQGDDGDIAPEMVTPQSKDFNSGNKGDYHEEGTSNKNTSYS
 HSETDHTPVSRKRKRGRSNFHNHNPSSVDKSTEYIKEEENESTVSSKLEESNEDSHQDPAPPEGLTP
 DSLETEATNVCSFVVQEPDVSAASGRACSPNKSSSESVSEVAENSSAAEKGEASTVKEAPPPGGNSEEN
 QLLMSAEPVVSSDEEGPVEHKNSVILKLQPSQDYEFMSENQTTSDPQLSEMLGACESVQVSSELCYPN
 PDMENISCINPSEMCLKLDFIFTCVYIGKIKGTSKGCITFTKYYIKIPFQVSMNEISLTVDTARLKRFG
 LWESKDDHSHKSHAILFLWSSNYLQDIQTQLENPMLSQQSKANEFIFLELNSPISQREELKLDIMME
 IGATNGELQLSCPLPWQAFPLFQDLSPQEIFLHYHCASASSFPAVAGADMKKKPVSPSNADVVKPTY
 TFLHKQSSGCYSLITSSPDEEWREVRNTGPVQKLIYVPPPTKGGLGVTNEDLECEEGEFLNDVIIDF
 YLKYLLLEKASDELVERSHIFSSFFYKCLTRKENNLTEDNPDLSVAQRRHRRVRTWTRHINIFNKDYIFV
 PVNESSHWYLAVICFPWLEEAVYEDFPQTVSQEFQDQSQHDNKTIDNDPHTTSTVFTSAEESQSTETSM
 SVPKMKRRCILILDLSLKAASIQNTVQNLREYLEVEWEVKRKTREFSKTNMVDLCPKVPKQDNSSDCG
 VYLLQYVESFFQDPIVNFELPIHLEKWFPRHVIKTKREDIRELILKHLQKQKSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

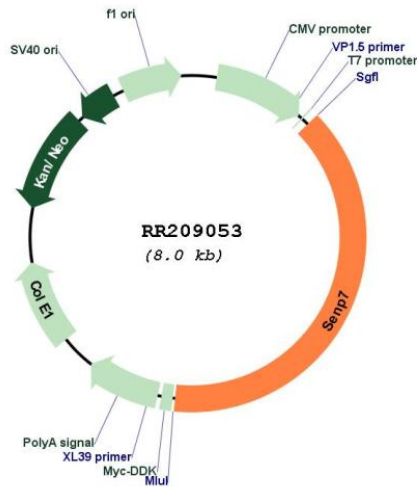
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001105888

ORF Size: 3111 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:	<ol style="list-style-type: none">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_001105888.1 , NP_001099358.1
RefSeq Size:	4876 bp
RefSeq ORF:	3114 bp
Locus ID:	288167
UniProt ID:	D3ZF42
Cytogenetics:	11q12
MW:	116.9 kDa
Gene Summary:	Protease that deconjugates SUMO2 and SUMO3 from targeted proteins, but not SUMO1. Catalyzes the deconjugation of poly-SUMO2 and poly-SUMO3 chains. Has very low efficiency in processing full-length SUMO proteins to their mature forms (By similarity). [UniProtKB/Swiss-Prot Function]