

Product datasheet for **MR209170**

Senp2 (NM_029457) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Senp2 (NM_029457) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Senp2
Synonyms:	2310007L05Rik; 4930538C18Rik; AI646780; AW554757; mKIAA1331; Smt3ip2; SuPr-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209170 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTACAGATGGCTGGCTAAGGTTCTCGCACCATTCTTCGTTGTGTGAGCGGCCCGCCCGGGGCC
 GCGCCCTACTCAAGAGGGCGCTCCAGCAGCACTCTGTTTTCTACTGCAGTGGACTGATGAGATCCC
 AGCCAAAAGGCCAAGATTAGATTGCTTTATTCACCAAGTGAAGAACAGTCTCTACATGCTGCCAGTTA
 TTTGGATTCCCGTCCAGCTGACCACAAAACCATGGTGTCTTCTGCTTGAATGGAACACGGAATGTGG
 CCCCTTCTGGAGAGGTCTTTTGAAGTCTTCTGAGCTGATGAGTTCTGGATCCTGCAGCAGCAT
 GCTGAACTGGGTAATAAATCTCCTAATGGAATAAGCGACTATCCAAAGATCAGAGTGACAGTGACCCGC
 GATCAGCCACGGAGAGTCTGCCCTCTTTGGTTTTACGCTGAAATCGGAAGGCTATAATAGAAGGCCAA
 GTGGTCGTCGCCATAGCAAAAGCAATCCAGAGAGTTCTTAACATGGAAGCCTCAGGACCAAGGTGTGAC
 AGAGATGATTTCTGAAGAGGGTGGCAAGGGTGTGAGGCGTCCCCACTGCACCGTGGAGGAGGGTGTCCAA
 AAGGATGAAAGAGAAAAGTATCGAAAGTATTGGAGCGACTTAAAGAAGGTGCTCATGGAAGCACGTTC
 CTTCCACGGTTTACACCACAGTTCTCAGAGAATTCAGATGGACACATTAAGACCAAAGGCTGGGTGGA
 GGAGCAGAATCATGGCGTCAGAACAAACCATTTTGTTCAAAACAGTATAGAGTTGTTGAAAACAAGGGA
 CCTCTCTGTTCAATGAGAAGTAAAAGAGGTATCAAAAGGGAAAGCTGATACAGAGAAGGTGGTGGGAC
 TCCGATTTGAAAAGGAAGGTACAAGAGGACACCAATGGAGCCTGATCTGTCAGAAGAAGTGTCTGCCCG
 ACTTCGCTAGGAAGTGAAGCAATGGCTTACTCAGAAGGAAAATACAGTGCTTGAGATAAAGGAAAAG
 AACTTCCGAGCAAGAGAAGGACAGAAGAACGGAAGACCTCTTTGAATTTACAGAGGACATGGAAGG
 AAATCAGTAATGCCCTGGCCACGGCCACCAGATGAGATTTTGGCAGCGCTTTCAAGTTGCGAATCAC
 CCGCGGAGACATCCAGACCTTAAAGAACTATCATTGGCTCAACGATGAGGTCATTAATTTTTATATGAAT
 CTTTTAGTGAAAAGGAGTAAAAAGCAAGGTTATCCAGCACTTCATGCATTAGTACATTCTTCTATCCTA
 AGCTAAAGTCTGGAGTTACCAAGCAGTAAAAGATGGACCAAAGGGTAAATCTCTTCAACAAGAACT
 TGTCTGTTACCTATTCATCGGAAGGTACATTGGAGCCTGGTGGTATGGACCTAAGAAAAAGTGTCTT
 AAATATCTGGATTCTATGGGACAAAAGGCCACAGGATCTGTGAGATTCTTCTCAGTATTTACAGGATG
 AAAGCAAGACCAAAAGAAATACAGATCTCAACCTTTAGAGTGGACCCACTACAGCATGAAGCCACATGA
 GATTCCTCAGCAGTTGAATGGGAGTGACTGTGGAATGTTACTTGTAAATATGCAGATTATTTCTAGG
 GACAAACCTATCACATTCCTCAGCACCAGATGCCTCTTCCGGAAGAAGATGGTGTGGGAGATCCTTC
 ACCAGCAGTTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209170 protein sequence
 Red=Cloning site Green=Tags(s)

MYRWLAKVLGTLRLCERPAPGARALLKRRRSSSTLFSTAVDTDEIPAKRPRLDCFHQVKNSLYNAASL
 FGFPPQLTTKPMVSSACNGTRNVAPSGEVFSNSSSCELMSSGSCSSMLKLGKSPNGISDYPKIRVTVTR
 DQPRRVLPSFGFTLKSEGYNRRPSGRRHSKSNPESSLTWKPQEQGVTEMISEEGGKGVRRPHCTVEEGVQ
 KDEREKYRKLLERLKEGAGHSTFPPTVSHSSQRIQMDTLKTKGWVEEQNHGVRTTHFVPKQYRVVETRG
 PLCSMRSEKRYSGKADTEKVVGLRFEKEGTRGHQMEPDLSEEVSARLRLGSGSNGLLRRKISVLEIKEK
 NFPSKEKDRRTEDLFEFTEDMEKEISNALGHGPPDEILSSAFKLRTIRGDIQTLKNYHWNDEVINFYMN
 LLVERSKKQGYPALHAFSTFFYPKLSGGYQAVKRWTGKVNLFQELVLPVPIHRKVHWSLVVMDLRKKCL
 KYLDSMGQKGRICEILLQYLQDESKTRKNTDLNLEWTHYSMPHEIPQQLNGSDCGMFTCKYADYISR
 DKPITFTQHQMPLFRKKMWEILHQQLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_029457

ORF Size: 1767 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_029457.3](#), [NP_083733.1](#)

RefSeq Size: 4499 bp

RefSeq ORF: 1767 bp

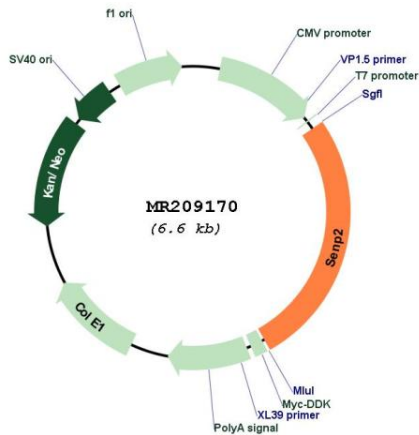
Locus ID: 75826

UniProt ID: [Q91ZX6](#)

Cytogenetics: 16 B1
MW: 67.6 kDa

Gene Summary: Protease that catalyzes two essential functions in the SUMO pathway. The first is the hydrolysis of an alpha-linked peptide bond at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptides, SUMO1, SUMO2 and SUMO3 leading to the mature form of the proteins. The second is the deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins, by cleaving an epsilon-linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine epsilon-amino group of the target protein. May down-regulate CTNNB1 levels and thereby modulate the Wnt pathway. Deconjugates SUMO2 from MTA1 (By similarity). Plays a dynamic role in adipogenesis by desumoylating and promoting the stabilization of CEBPB (PubMed:20194620). Isoform 3 activates transcription. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209170