

## Product datasheet for **MC219434**

### **Senp2 (NM\_029457) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC219434 representing NM\_029457  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTACAGATGGCTGGCTAAGGTTCTCGGCACCATTCTTCGTTGTGTGAGCGGCCCGCCCGGGGCC  
 GCGCCCTACTCAAGAGGGCGCTCCAGCAGCACTCTGTTTTCTACTGCAGTGGACACTGATGAGATCCC  
 AGCCAAAAGGCCAAGATTAGATTGCTTTATTACCAAGTGAAGAACAGTCTCTACAATGCTGCCAGTTTA  
 TTTGGATTCCCGTCCAGCTGACCACAAAACCATGGTGTCTTCTGCTTGAATGGAACCGGAATGTGG  
 CCCCTTCTGGAGAGGTCTTTTGAAGTCTTCTGAGCTGATGAGTTCTGGATCCTGCAGCAGCAT  
 GCTGAACTGGTAATAAATCTCCTAATGGAATAAGCGACTATCCAAAGATCAGAGTGACAGTGACCCGC  
 GATCAGCCACGGAGAGTCTGCCCTCTTTGGTTTTACGCTGAAATCGGAAGGCTATAATAGAAGGCCAA  
 GTGGTCGTCGCCATAGCAAAAGCAATCCAGAGAGTTCTTAACATGGAAGCCTCAGGAGCAAGGTGTGAC  
 AGAGATGATTTCTGAAGAGGGTGGCAAGGGTGTGAGGCGTCCCCACTGCACCGTGGAGGAGGGTGTCCAA  
 AAGGATGAAAGAGAAAAGTATCGAAAGTTATTGGAGCGACTTAAAGAAGGTGCTCATGGAAGCACGTTC  
 CCCCCACGGTTTACACCACAGTTCTCAGAGAATTCAGATGGACACATTAAGACCAAAGGCTGGGTGGA  
 GGAGCAGAATCATGGCGTCAGAACAACCCATTTTGTCCAAAACAGTATAGAGTTGTTGAAAACAAGGGA  
 CCTCTCTGTTCAATGAGAAGTAAAAGAGGTATCCAAAAGGAAAAGCTGATACAGAGAAGGTGGTGGGAC  
 TCCGATTTGAAAAGGAAGGTACAAGAGGACACCAATGGAGCCTGATCTGTCAGAAGAAGTGTCTGCCCG  
 ACTTCGCTAGGAAGTGAAGCAATGGCTTACTCAGAAGGAAAATATCAGTGCTTGAGATAAAGGAAAAG  
 AACTCCCGAGCAAAAGAGAAGGACAGAAGAACGGAAGACCTCTTTGAATTTACAGAGGACATGAAAAGG  
 AAATCAGTAATGCCCTGGGCCACGGCCACCAGATGAGATTTTGAGCAGCGCTTTCAAGTTGCGAATCAC  
 CCGCGGAGACATCCAGACCTTAAAGAACTATCATTGGCTCAACGATGAGGTCATTAATTTTTATATGAAT  
 CTTTTAGTGAAAAGGAGTAAAAGCAAGGTTATCCAGCACTTCATGCATTAGTACATTCTTCTATCCTA  
 AGCTAAAGTCTGGAGTTACCAAGCAGTAAAAGATGGACCAAAGGGTAAATCTCTTCAACAAGAACT  
 TGTTCTGGTACCTATTTCATCGGAAGGTACATTGGAGCCTGGTGGTGGTGGACCTAAGAAAAAGTGTCTT  
 AAATATCTGGATTCTATGGGACAAAAGGCCACAGGATCTGTGAGATTCTTCTCAGTATTTACAGGATG  
 AAAGCAAGACCAAAGAAATACAGATCTCAACCTCTTAGAGTGGACCCACTACAGCATGAAGCCACATGA  
 GATTCCTCAGCAGTTGAATGGGAGTGACTGTGGAATGTTACTTGTAAATATGCAGATTATTTCTAGG  
 GACAAACCTATCACATTCCTCAGCACCAGATGCCTCTTCCGGAAGAAGATGGTGTGGGAGATCCTTC  
 ACCAGCAGTTGCTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_029457
- Insert Size:** 1767 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

**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]

Transcript Variant: This variant (1) encodes the functional protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.