

## Product datasheet for **MC204079**

### **Senp1 (NM\_144851) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Senp1 (NM_144851) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Senp1
Synonyms:	2310046A20Rik; D15Erttd528e; E330036L07Rik; suPr-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC023129  
 GGATTCTGTGCTTTACTAAAGCCAGTGATGTGAAGAGACCTGAAATGGATGACACAGCTGATGGGGTGA  
 AGATGGACGCTGGGGAGGTGACCTTAGTGAACCACGGCTCCACTTTCAGAACCCACCGCCGCCACAGTC  
 AGGCTTTCAGAGGAGCAGCTTCTGCTTCTGACCAGCAGAGCTTGCCTTTCAGGCAGGGTACTTTAGAT  
 GGATCTTTCACGTGTTCTACAAGAAGCCAGCCTATCGTCCAGATTATCACTCAGATAACCCCTCCTCAG  
 ACAGTTTCCTTGGCTCAGGTGACGTAAGAACCTTTGGTCAAAGTGCAAATGGACAATGGAAAATCCAC  
 TCCAGCGTCAGGCTCAGCGCCACAAAAACCAAGAAATAGCCGAAGTCTTTGCCTCGAAACCCGGAAGACC  
 TCAAGTGGATTATCAAACACCTTTGTGGCAAGTCCAATCACCCTGCCACATGTCTGCGTATGAAAAGT  
 CATTTCCCATTAAGCCTGCCCAAGTCCATCCTGGAGTGGGTGATGTCGTCGGAGTCTTTAAGCCCTAA  
 GAAAACCTCAGAGGCGACATTTACGACAGCAGAGAAGAGACAGTTCAAGAAGAAGAGAAGGAGATCTACAGA  
 CAGCTGCTGCAGATGGTACAGGGAAGCAGTTCTGTGTAGCGAAACCCACCACACATTTCCGTTACGCC  
 TGTCTCGGTGCTTAGTCCAATAAGAACTCTTTGAAAGACTCGTGTGAGAAACGAAACTCTTGTGC  
 ATCTCATGTCATTGGTTCTGATACGTCATCCTCTGGATCTGCCAGATTTAACTGCACAGGAGCAGTTG  
 TCCACAGTGCACATTCCTGTCATCTGGTACCCAGATGTTGCCTTTGGATCCAAGACTCTGATCCTC  
 ACCATCACCTCGCTGCACCTCATCAGCCAAATAGCTTACCAGCATCAAATACACAGTCCGAAGGGTCA  
 CTCTGTGATTTACTTAAAGTAAAAGAATCTCAGACTCCAGCTTCCAGCCCTACGTTCTTCCAGGCAGAG  
 CTATGGATCAAAGAATTAAGTAGCGTTTATGACTCTCGAGCTCGGAAAGATTGCGCCGGATTGAAGAGC  
 AGAAAGCATTGGCACTACAGCTTCAAACCCAGCGACTGCAGGAGCAGGAACATGCAGTACTTGACTCCGT  
 AGAGCTTACCTTCGTGTGCCTCTTGAAGAGGAGATTCTGTGCACAGCTGCCAAGAAACAGGAAAAAA  
 AGCCACCAGCTGACTGACAGTGAAGACGAATTTCTGAAATTACAGAGGAAATGGAAAAAGAAATAAAGA  
 ATGATTTTCGTAACGGTAACCAGGATGAAGTCTCAGTGAGGCATTCCGTTGACCATTACACGCAAGA  
 CATTGACTCTAAACCTCTAACTGGCTCAATGATGAGATCATCAATTTCTACATGAACATGCTAATG  
 GAACGCAATAAGAGAAGGGGTTTCCAAGTGTACATGCGTTTAAATACCTTCTTCTTCAACTAAGCTAAAA  
 CAGCTGGTTATCAGGCAGTGAACGCTGGACAAAAGAGGTGGATGTATTCTCCGTTGATATTCTTCTGGT  
 GCCATTCACTTGGGTGTGCACTGGTGTCTAGCTGTTGTAGACTTTAGAAGGAAGAGTATCACCTACTAT  
 GATTCTATGGGTGGAATAAAACAACGAGGCTGCAGGATCCTCTTGAATACCTAAAAACAAGAAAGTGTG  
 ACAAGAAAAGGAAAGAGTTTACACCAACGCGTGGCAGCTTTCAGCAAGAAGAGCCAGGAAATCCACAC  
 GCAGATGAATGGGAGTACTGTGGAATGTTTGGCTTCAAATATGCTGACTGCATTACCAAAGACAGACCA  
 ATCAACTTCACACAGCAACATGCCATATTTCCGAAAGCGAATGGTCTGGGAGATCCTCCACCGGAAGC  
 TCTTGTGAAGATTCTCAGTGAGCAGACACTGAGCGTGTGGGGACCAACCTTTGCCATCGACAGCCGGAG  
 ACCTTGGAAAGAGCTGCTCCTCCCTCCCCTGTTCTTGTACAGCCCTTGACCTGGACCAGGCCCGCGGAG  
 ATGCATTCAAGCACATCTGCCTTCCCTTTTGTAGCTCAGATCCTATTTTTGCAAAGAAACTTTGGTGC  
 TGTGAAGGGGTGAGGGAACATCCCTCCTGAAGAGACTGCCTTTCACTTCAGCTCTGCCGTCTTCTTTCC  
 AAGGGCTCCCGCTCACTGAGTCCCTCACTAGGAGCCCAAGAGAGCCTCGGGAAGAATCTCGGTTTCTGT  
 AAACCTTGTGTGCTCGGCCTTACCGAGAAGCAGGAAAGAGCATGGGCAGCAGGTAGGGGTAAAACACCA  
 GCATGTAGGACACATCCCAAGACGCAGAGTCGGCAATGGAGCTGCTTAACTCCCTCCTCCAGGACCT  
 TCCTATTTATGTGCCCTCATGACCGACTGCTTCTCCTCAAGCTGTTTCTTCACTGGTAGCGTCATCCC  
 ATCCTAAGCACACTACACAAGCCCTGGCAGACCCTAAAGTCTCGAGCAGTCCGTTCTTACAAGCAGGGC  
 TGATGTGCGAGCACGCACGTGCTGTGGGAGGGCCCCAGAAGTACTGAGCGCAGCAGCCGGGCCCCAGC  
 TTCAGTGTGCCTGCTTCTGACCAAGAAGAAGGACCTTGGCGGTTAGCATCACACGCCAGAGTAGGATGA  
 ATACAGGTCTAGGTGGTCTGTGGCTAGTTAGTTTAAATATGCTTCTAGCCTCAGAGAGTTTTATATACAT  
 ATATGCCTATATGTGTATACATACATATATACACACACACACAATGTGAAATATATATTTACAGG  
 GATATGTTTTTAAAGTTAAAAAAGAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_144851  
**Insert Size:** 1923 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC023129</a> , <a href="#">AAH23129</a>
<b>RefSeq Size:</b>	2903 bp
<b>RefSeq ORF:</b>	1923 bp
<b>Locus ID:</b>	223870
<b>UniProt ID:</b>	<a href="#">P59110</a>
<b>Cytogenetics:</b>	15 54.04 cM
<b>Gene Summary:</b>	Protease that catalyzes two essential functions in the SUMO pathway (PubMed:15923632, PubMed:29499132). 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. Deconjugates SUMO1 from HIPK2 (By similarity). Deconjugates SUMO1 from HDAC1 and BHLHE40/DEC1, which decreases its transcriptional repression activity (By similarity). Deconjugates SUMO1 from CLOCK, which decreases its transcriptional activation activity (By similarity). Deconjugates SUMO2 from MTA1 (By similarity). Deconjugates SUMO2 from MTA1 (By similarity). Deconjugates SUMO1 from METTL3 (By similarity). Desumoylates CCAR2 which decreases its interaction with SIRT1 (By similarity). Deconjugates SUMO1 from GPS2 (PubMed:29499132).[UniProtKB/Swiss-Prot Function]