

Product datasheet for **SC112903**

SENP2 (NM_021627) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SENP2 (NM_021627) Human Untagged Clone
Tag:	Tag Free
Symbol:	SENP2
Synonyms:	AXAM2; SMT3IP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112903 sequence for NM_021627 edited (data generated by NextGen Sequencing)

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ATGTACAGATGGCTGGTTAGGATTCTCGGCACCATTTTCCGTTTCTGCGACCGGTGCGGTG
CCCCCTGCCCGGGCCCTCCTGAAGAGGCGGCGCTCAGACAGCACTCTGTTTTCTACAGTG
GACACTGATGAAATACCAGCCAAAAGACCAAGATTAGATTGCTTTATTCACCAAGTGAAA
AACAGTCTCTACAATGCTGCCAGCTTATTTGGATTCCCATTCCAGCTGACCACAAAGCCC
ATGGTAACCTTCTGCTTGTAAATGGAACACGGAATGTGGCCCTTCCAGGAGAGGTATTTTCG
AACTCTTCATCTTGTGAACTGACAGGTTCTGGATCCTGGAACAACATGCTGAAACTGGGT
AATAAATCTCCTAATGGAATAAGTGACTATCCAAGATCAGAGTGACAGTTACCCGAGAT
CAGCCACGCAGAGTCTGCCTTCTTTGGTTTTACTTTGAACTCAGAAGGCTGTAATAGA
AGACCAGTGGCCGTCGCCATAGCAAAGGTAATCCAGAGAGTTCTTTAATGTGGAACCT
CAGGAACAGGCTGTAACAGAGATGATTTCTGAAGAGAGTGGAAGGGTCTGAGGCGTCCC
CATTGTACTGTGGAGGAGGTGTTCAAAAAGAGGAAAGAGAGAAGTACCGAAAAGTTATTG
GAACGACTTAAAGAAAGTGGTCATGGAACCTCTGTCTGCTGCTGAACTTCAAATTATCAC
AGTTCTCAAAGAAGTCAAGTGGACACATTAAGACCAAAGGCTGGGGGGAAGAGCAAAAT
CACGGAGTCAAAACAACCTCAGTTTGTTCAAAACAATATAGACTTGTGAAACAAGGGGA
CCTCTATGTTTATTGAGAAGTGAAGAGGTTCAAAGGGGAAAATTACTGATACAGAG
ACGATGGTCGGAATCAGATTTGAAAATGAAAGTAGGAGGGGATACCAACTGGAGCCTGAC
CTATCAGAAGAAGTGTCCGCCGACTCCGCCTGGGCAGTGAAGCAATGGCTTACTCAGG
AGGAAAGTGTCAATAATTGAGACAAAGGAAAAGAAATTGCTCAGGCAAAGAGAGGGACAGA
AGAACGGACGATCTCCTTGAACCTACAGAGGACATGGAAGGAAATCAGTAATGCCCTA
GGCCATGGCCACAGGATGAAATCCTAAGTAGTGTCTTCAAATTGCGAATTACTCGAGGA
GATATTCAGACATTAAGAAGTATCACTGGCTCAATGATGAAGTCATTAATTTTTACATG
AATCTTCTGGTGGAAAGAAATAAAAAGCAAGGCTATCCAGCACTTCATGTATTCAGTACT
TTCTTCTATCCTAAATTAAGTCTGGGGTTACCAAGCAGTGAACGATGGACCAAAGGG
GTAATCTCTTTGAACAAGAAATATTCTGGTGCCTATTCATCGGAAGGTACATTGGAGC
CTGGTGGTATTGACCTAAGAAAAAGTGTCTTAAATATCTGGATTCTATGGGACAAAAG
GGCCACAGGATCTGTGAGATTCTCCTTCAAGTATTTACAGGATGAAAGTAAGACAAAAGA
AATAGTGATCTGAATCTTTAGAGTGGACCCATCACAGCATGAAACCACAGAGATTCTCT
CAACAGCTGAATGGGAGTATTGTGGAATGTTTACTTGTAAATATGCAGATTATATTTCT
AGGGACAACCTATCACATTTACTCAGCACCAGATGCCTCTCTCCGGAAGAAGATGGTG
TGGGAAATCCTTCATCAGCAGTTGCTGTGA
    
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Clone variation with respect to NM_021627.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_021627 unedited

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NGGTTTCGATTTGTATACGACTACTATAGGCGGCCGNAATTCGCACGAGGGGTTAAG
ACGGCGAAGGCGGACGCGCGGCCAGAGCTCTGGGGTTTTCGCTCTCGGGTGTGTGCGCC
GCCGCTGCTGCTTGGCCTGGTATGTACAGATGGCTGGTTAGGATTCTCGGCACCATTTT
CCGTTTCTGCGACCGGTGCTGCCCCCTGCCCGGGCCCTCCTGAAGAGGCGGCGCTCAGA
CAGCACTCTGTTTTCTACAGTGGACTGATGAAATACCAGCCAAAAGACCAAGATTAGA
TTGCTTTATTCACCAAGTAAAAACAGTCTCTACAATGCTGCCAGCTTATTTGGATTCCC
ATTCCAGCTGACCACAAAGCCCATGGTAACTTCTGCTTGAATGGAACACGGAATGTGGC
CCCTTCAGGAGAGGTATTTTCGAACTCTTCATCTTGTGAACTGACAGGTTCTGGATCCTG
GAACAACATGCTGAAACTGGGTAATAAATCTCCTAATGGAATAAGTGACTATCCAAGAT
CAGAGTGACAGTTACCCGAGATCAGCCACGAGAGTCTGCCTTCTTTGGTTTTACTTT
GAACTCAGAAGGCTGTAATAGAAGACCAGTGGCCGTCGCCATAGCAAAGGTAATCCAGA
GAGTTCTTTAATGTGAAACCTCAGGAACAGGCTGTAACAGAGATGATTTCTGAAGAGAG
TGGCCAGGGTCTGAGGCGTCCCCATTGTACTGTGGGAGAGGGTGTCCAAAAGAGGCAAG
AGAGAAGTACCGAAAGTTATTGCACGACTTACAGAAAGTGGCCATGGAACCTGTCTGTC
CTGTAACCTCCAATTATCACAGTTCTCAAAGAAGTCAGAGGGCACATTAAGACCAAAGGC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_021627 unedited GCCGCAATTTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCACAAAATAAATCCTGCATTTCC CACATTCATAGGGAAAAGAACTCTTAAAAAAAATATTAGTTAGCGTTTGTCTTGTGTG GGTTGAACAGTCCAAAGCTCTGAGCAGGCACAGCCTTACAACAGGATTGCAAGCAGCCC TCTGCACCCCAAGTCAGGACTAGAGTACAGTGAGAGGCCTTCATGCACTTTTGACAGCTC AGTACCTGTGAGAACAGAAGTGATGCAGGGACTTTTTAACCCACAATGCATGAGGTATAT GGAAATGTCTGTGAAAGAACCACCAGCAGCTAGAGGGACCAGGCAAAGTTTTCTCACAGC AACTGCTGATGAAGGATTTCCACACCATCTTCTTCCGGAAGAGAGGCATCTGGTCTGA GTAAATGTGATAGGTTTGCCCTAGAAATAAATCTGCATATTTACAAGTAAACATTCCA CAATCACTCCCATTAGCTGTTGAGGAATCTCGTGTGGTTTCATGCTGTGATGGGTCCAC TCTAAAAGATTAGATCACTATTTCTTTGGTCTTACTTTTCATCTGTAATACTGAAGG AGAATCTCACAGATCCTGTGGCCCTTTGTCCCATAGAATCCACATATCTAAGACTCT TTTCTTAGGTCAATCACCACCAGGCTCCAATGTACCTCCGATGAATAGGCACCAGAATA ACTTCCTGTTCAAAGAGATTTCCCTTTGGCCCATCGTTTCACTGCTTGAACCCCGAG ACTTTTATTAGGATAGAAGAAAGTCTGAATACTGAATGCTGGATAGCCTGCTTTATCTC TCCACCAGAGATCATGTAACATATGCACTCTCACTGGCCAGGAAGGTCTTAAGCCGGAA TTCTCCAGAATTCCATTGAAGCCCACTAGATTATCCCTGGGCAGGGCAAGGCATACGGA TCCTTCCAGCCCCGAAN
Restriction Sites:	ECORI-NOT
ACCN:	NM_021627
Insert Size:	2100 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:	<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_021627.2 , NP_067640.2
RefSeq Size:	3207 bp
RefSeq ORF:	1770 bp
Locus ID:	59343
UniProt ID:	Q9HC62
Cytogenetics:	3q27.2
Domains:	Peptidase_C48

Protein Families: Druggable Genome, Protease

Protein Pathways: Wnt signaling pathway

Gene Summary: SUMO1 (UBL1; MIM 601912) is a small ubiquitin-like protein that can be covalently conjugated to other proteins. SENP2 is one of a group of enzymes that process newly synthesized SUMO1 into the conjugatable form and catalyze the deconjugation of SUMO1-containing species.[supplied by OMIM, Apr 2004]