

Product datasheet for **SC315640**

SEN7 (NM_001077203) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SEN7 (NM_001077203) Human Untagged Clone
Tag: Tag Free
Symbol: SEN7
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001077203, the custom clone sequence may differ by one or more nucleotides

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ATGGACAAGAGAAAGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAA
AGGAAAAAGTCATCTTCTGATTTATCGGAGATAAGAAAGATGTTAAATGCAAAACAGAG
GATGTCCATGTTCAATCACCCTGTCCAAATTCAGAAGCTCAGAACGCTGGACTCTCCCT
TTGCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTCTAGACCATAAAAAATAAAAA
CATATCCGAGGGTGTCTGTACTTCCAAGTCATCACCAGAAAGGCAACTCAAAGTTATG
TTGACGAATGTCTATGGACGGATTTAGGACGAAAATTCAGAAAGACCCTACCTAGAAAC
GATGCTAATTTATGTGATGCCAACAGGTGCAATCAGACTCATTGCCTTCGACATCTGTT
GACAGCCTAGAGACATGTCAAAAATTAGAACCTCTTCGCCAAAGCCTTAATTTATCTGAA
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AAAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTAATATCTGATACTCAGCCTGAA
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CTTAGAAATAATTTACCTGATTCTCAATATTGTACTTCTTTGGATAAGTCAACAGAACAG
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TATCATCAGGATCCAAAAGTGCCTGAAGAAATTACAACAACTAAACCTACAAAAAGTATTTT
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TCTGCCGGTTCAACCACTGAAACCGTTGAGAACTAATTCCATTGATATTGTGGGGATT
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GAAGAAGGACCTGTTGAACATAAAAGTTCAGAAATTTAAGTTACAATTAAGCAAGAC
CGTGAGACAATAATGAAAATGAGAGTACTTCTGAATCAGCATTGTTAGAACTACCATTG
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AACATTTCCAGTATTATGCCTAGTAATGAGATGGATCTACAACCTGGATTTTATATTTACT
TCTGTTTATATTGGTAAAATAAAAGGAGCTTCTAAAGGTTGTGTTACAATCACAATAAAAA
TATATTAAGATCCATTTCAAGTGTCCCTGAATGAGATTTCAATTGCTAGTGGATACCACA
CATTTAAAGCGGTTTGGGTTATGGAAAAGTAAAGGATGATAATCACAGTAAAAGGAGTCAT
GCTATTCTTTCTCTGGGCTCTTCAGATTATCTTCAAGAGATTCAGACCCAATTAGAA
CACTCTGTATTAAGCCAGCAATCAAAATCTAGTGAATTCATTTTCCTTGAACACACAAT
CCTGTTTCACAAAGAGAAGAATTGAAGCTGAAAGATATTATGACGAAATAAGTATAATC
AGTGGAGAATTAGAGCTTTCTTACCGTTGTCTTGGGTTTCAGGCATTTCTTTGTTTCAG
AACCTCTCTTCAAAAGAAAGTCTTTTATTCAATTACTGTGTTCAACTGTCTTCTTCT
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CCTGCTGGTGTGCTGTTGCTGAAGAAATGAAGCTGAAATCAGTATCTCAGCCCTCAAAC
ACAGATGCGGCCAAGCCTACTTACACCTTCTGCAGAAGCAAAGTAGCGGTTGCTACTCC
CTTTCTATTACATCTAATCCAGATGAAGAATGGCGAGAAGTCAGGCACACTGGACTTGT
CAGAAGTTGATTGTATATCTCCACCACCTACTAAGGGGGGATTAGGAGTAACTAATGAA
GATCTGGAGTGTTAGAAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTT
AAGTATCTTATATTGGAGAAGGCATCAGATGAAGTTGTTGAACGAAGTCACATTTTTAGT
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CTTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATT
TTTAATAAAGATTACATCTTTGTACCTGTAAATGAGTCGTCTCACTGGTATCTCGCAGTC
ATTTGTTTTCCATGGTTAGAAGAAGCTGTGTATGAAGATTTCCACAACTGTATCCAG
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CCAAAGAAAATGTGTAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCT
GTACAAAACACAGTTCAGAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTAAACTA
AAAACATCGTCAATTCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCCTAAA
CAGGACAATAGCAGTGATTGTGGAGTATATTTATTGCAGTATGTGGAAAGCTTCTCAAG
GATCCTATTGTTAACTTTGAACTTCCAATTCATTTGGAGAAGTGGTTTCTCGTCATGTA
ATAAAGACCAACCGGAAGATATTTCGAGAGCTCATCTTGAAACTTCATTTACAGCAACAG
AAGGGCAGCAGTAGC

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Restriction Sites:	Please inquire
ACCN:	NM_001077203
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001077203.1</u> , <u>NP_001070671.1</u>
RefSeq Size:	4739 bp
RefSeq ORF:	2958 bp
Locus ID:	57337
UniProt ID:	<u>Q9BQF6</u>

Cytogenetics: 3q12.3

Protein Families: Druggable Genome, Protease

Gene Summary: The reversible posttranslational modification of proteins by the addition of small ubiquitin-like SUMO proteins (see SUMO1; MIM 601912) is required for many cellular processes. SUMO-specific proteases, such as SENP7, process SUMO precursors to generate a C-terminal diglycine motif required for the conjugation reaction. They also display isopeptidase activity for deconjugation of SUMO-conjugated substrates (Lima and Reverter, 2008 [PubMed 18799455]).[supplied by OMIM, Jun 2009]

Transcript Variant: This variant (2, also known as SENP7S) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.