

Product datasheet for **SC125557**

SENP5 (NM_152699) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SENP5 (NM_152699) Human Untagged Clone
Tag:	Tag Free
Symbol:	SENP5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_152699 edited
 GCGGTAGCCACTTCAGAGGAAGCTCGGCGGCTGTGGCCGCGGCGAACAGGCCGGACGCCT
 CGTCGCTGGCGGGCTTCCTTGGAGCTGACGAAGCGGGTCCGCGGTCCAGGCTGCTGC
 CGCGACGGGGCCGGCGGGCCAGCTGCCAGGAACGAGGGTAGCAGCTGCATCCAGATC
 TCATTATGCATCAGAAAAATGAAAAACAGAGGAAAATTCATGGAGGAAAGGAATCCAC
 TTAGCCTTTTCTGAGAAATGGAATACTGGGTTTGGAGGCTTAAAGAAATTTATTTTCC
 CAACACTTGTGCATTCTGAAAGCTAAGCTGGGAAGGCCAGTTACTTGAATAGACAGTTG
 AGACATTTCCAGGTAGAAAGAAAGCTCTTCAAATCCAGAAAACGTGGATCAAGGATGAA
 CACCTTTGTGCTAAGACCAAGTTCAATGTGGCTACTCAAATGTTAGTACTTTGTCTCT
 AAAGTGAAAAAGGACGCTAAACACTTCATTTCTCTCAAAGACTCTCTGAGACTC
 CAAGCAGAGAAGCTGTTGTCATCAGCAAAGAATTCTGACCATGAATACTGCAGAGAGAAA
 AATCTCTGAAGGCAGTTACTGACTTTCCATCAAATAGTGCTTTAGGTCAGGCCAATGGT
 CACAGACCTAGGACAGACCCACAACCTTCTGACTTTCCATGAAGTTCAATGGGGAGAGC
 CAAAGTCCAGGTGAGAGTGGCAGATTGTGGTCACCTTGAACAACCATAAGAGAAAAGGC
 TTTTGTTACGGCTGCTGCCAAGGCGGAGCACCACAGGAATGGGGGACCCTTGATTCCA
 AAAAAGTTCCAACCTAACCAACATAGAAGGATAAAATTATCTCCTTATGATGATGAG
 AAATTATCCATGATTAGATTTCCGTACAGGATTCTCAGATCCCAGCACTTCAGAACCAAA
 AGCAAGGTTTGAAGCTAAGAAAAGCCAGCGAAGCTGGGTACAGAAAAGTCACTGGGGAC
 CATCAAGAGACCCGTAGGGAGAACGGTGAAGGTGGCAGTTGCAGCCCATTTCCTTCCCA
 GAACCTAAAGACCCTTCTGTGGCATCAGCCGTAATTTCCAGATATGGACAGCAGTGCT
 GTGGTGAAGGGGACGAACTCTCATGTGCCTGATTGCCACACTAAAGGAAGCTCTTTCTTG
 GGCAAGGAGCTTAGTTTAGACGAAGCATTCCCTGACCAACAGAATGGCAGTGCCACAAC
 GCCTGGACCACTCATCTGTTCTTCTCCTAAGTGGGAGTGTACAGAGCTGATTATGAC
 ATCCCCTTACCAGAACATCGTTCTAATACCATGTTCAATTCAGAAACTGAAAGAGAAATT
 ATGACTCTGGGTACAGAAAATCAGACAAGTTCTGTGAGTATGACAGAGTAAAAGTGTCA
 GTGTCTGGAGCAGATACATCTGTGAGTAGCGTAGATGGGCCTGTGTCCAAAAAGGCTGTT
 CAAAATGAGAAGCTCATAACAGATGGAGGAGGATGGATCTCTCAAGCAGAGCATTCTTAGT
 TCTGAGTTGCTGGACCACCCTTACTGTAAGTCCACTGGAGGCTCCCTTGGTGTGAGT
 GGACTCAAAGTAAAGTCAAGTAGGAGGTGAAAGAACAGTCAGAAAAGCCTCTCCAGTG
 GATGATGAACAGCTGTCAGTCTGTTTCTGGATTCTTAGATGAGGTTATGAAGAAGTAT
 GGCAGTTTGGTCCACTCAGTGAAGAAAGTCCCTTGAAGATTAAAAGATGCTTTAAT
 GAAGACTTTTCTAATAGAAAACCTTTATCAATAGGGAATAACAAACTATCGGGCCAGA
 CATCAAAAATGTAACCTCCGTATCTTCTATAATAAACACATGCTGGATATGGACGACCTG
 GCGACTCTGGATGGTCAGAACTGGCTGAATGACCAGGTCATTAATATGTATGGTGAAGT
 ATAATGGATGCAGTCCCAGACAAAGTTCCTTCTCAACAGCTTTTTTTCATAGACAGCTG
 GTAACCAAGGATATAATGGAGTAAAAAGATGGACTAAAAAGGTGGATTTGTTAAAAAG
 AGTCTTCTGTTGATTCTATCACCTGGAAGTCCACTGGTCTCTCATTACTGTGACACTC
 TCTAATCGAATATTTTCAATTTATGATTCCCAAGGCATTCAATTTAAGTTTTGTGTAGAG
 AATATAAGAAAGTATTTGCTGACTGAAGCCAGAGAAAAAATAGACCTGAATTTCTTCAG
 GGTTGGCAGACTGCTGTTACGAAGTGTATTCCACAACAGAAAAACGACAGTGAAGTGGGA
 GTCTTTGTGCTCCAGTACTGCAAGTGCCTCGCCTTAGAGCAGCCTTTCCAGTTTTCAAA
 GAAGACATGCCCCGAGTGCAGGAGGATTTACAAGGAGCTATGTGAGTGCCGGCTCATG
 GACTGAAACTCAGCAGGGACTCTGGGAAGTCTGACCAAGTTGGAGCAGATGGTTTGTAC
 TTGAATCTCCAAACACTTAGTTGAATTTTACAGATATTTAGATCAGTGGTGTGGGCC
 ACTATTGTTACCTCAAATTTATTTTTGCCCTTATTCATTTCTCCAGCTACCATGACTA
 TTGTTAATGTTCAAGTTTGGTTTCAATTTAATTTTATGGTCTGTGCGTCCCCCATATT
 TAATATTTATTATCAAACGCATGCATATAGACAGAGCATGCAGTGAAGAGTATTA
 AAAAAGCTTAGCAAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_152699

Insert Size:	2900 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_152699.2.
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_152699.2</u> , <u>NP_689912.1</u>
RefSeq Size:	2788 bp
RefSeq ORF:	2268 bp
Locus ID:	205564
UniProt ID:	<u>Q96HI0</u>
Cytogenetics:	3q29
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>The reversible posttranslational modification of proteins by the addition of small ubiquitin-like SUMO proteins (see SUMO1; MIM 601912) is required for numerous biologic processes. SUMO-specific proteases, such as SENP5, are responsible for the initial processing of SUMO precursors to generate a C-terminal diglycine motif required for the conjugation reaction. They also have isopeptidase activity for the removal of SUMO from high molecular mass SUMO conjugates (Di Bacco et al., 2006 [PubMed 16738315]).[supplied by OMIM, Jun 2009]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>