

Product datasheet for **RC205592**

SENP5 (NM_152699) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SENP5 (NM_152699) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SENP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC205592 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAAAACAGAGGAAAATTCTATGGAGGAAAGGAATCCAATTAGCCTTTTCTGAGAAATGGAATACTG
GGTTTGGAGGCTTAAGAAGTTTTATTTTACCAACACTTGTGCATTCTGAAAGCTAAGCTGGGAAGGCC
AGTTACTTGGAATAGACAGTTGAGACATTTCCAGGGTAGAAAGAAAGCTCTTCAAATCCAGAAAACGTGG
ATCAAGGATGAACACCTTTGTGCTAAGACCAAGTCAATGTGGCTACTCAAAATGTTAGTACTTTGTCT
CTAAAGTGAAGAAAGGAGCCTAAACACTTCATTTCTCCTCAAAGACTCTCCTGAGACTCCAAGCAGA
GAAGCTGTTGTCATCAGCAAAGAATTCTGACCATGAATACTGCAGAGAGAAAAATCTCTTGAAGGCAGTT
ACTGACTTTCCATCAAATAGTGTCTTAGGTACGGCCAATGGTACAGACCTAGGACAGACCCACAACCTT
CTGACTTTCCATGAAGTCAATGGGGAGAGCCAAAGTCCAGGTGAGAGTGGCACGATTGTGGTCACTT
GAACAACCATAAGAGAAAGGGCTTTTGTACGGCTGCTGCAAGGGCCGAGCACCACAGGAATGGGGGA
CCCTTGATTCCAAAAAGTTCAACTTAACCAACATAGAAGGATAAAATATCTCCTCTTATGATGTATG
AGAAATATCCATGATTAGATTTTCGGTACAGGATTTCTCAGATCCCAGCACTTCAGAACCAAAAAGCAAGGT
TTGCAAGCTAAGAAAAGCCAGCGAAGCTGGGTACAGAAAGTCACTGGGGACCATCAAGAGACCCGTAGG
GAGAACGGTGAGGGTGGCAGTTGCGAGCCATTTCTTCCCAGAACCTAAAGACCCTTCTTGTGGCAGT
AGCCGACTTTCCAGATATGGACAGCAGTGTGTGGTGAAGGGGACGAACTCTCATGTGCCTGATTGCCA
CACTAAAGGAAGCTTTTCTTGGCAAGGAGCTTAGTTTAGACGAAGCATTCCCTGACCAACAGAATGGC
AGTGCCACAAACGCTGGGACCAGTCACTCTGTCTTCTCCTAAGTGGGAGTGTACAGAGCTGATTGATG
ACATCCCCTTACCAGAACATCGTTCTAATACCATGTTTCAATTTAGAAAAGTGAAGAGAAATATGACTCT
GGGTACAGAAAAATCAGACAAGTTCTGTGAGTGTGACAGAGTAAAACTGTCAAGTGTCTGGAGCAGATA
TCTGTGAGTAGCGTAGATGGGCCTGTGTCCAAAAGGCTGTTCAAATGAGAACTCATACCAGATGGAGG
AGGATGGATCTCTCAAGCAGAGCATTCTTAGTTCTGAGTTGCTGGACCACCCTTACTGTAAGTCCACT
GGAGGCTCCCTTGGTGTGAGTGGACTCAAAGTAAAGTCAAGTAGGAGGTGAAAGAACAGTCAGAAA
GCCTCTCCAGTGGATGATGAACAGCTGTCAGTCTGTCTTCTGGATTCTAGATGAGGTTATGAAGAAGT
ATGGCAGTTTGGTCCACTCAGTGAAGAAAGTCCCTGGAAGATTAAGAGATGTCTTAAATGAAGACTT
TTCTAATAGAAAACCATTTAATCAATAGGAAATAACAACTATCGGGCCAGACATCAAAAATGTAACCTC
CGTATCTTCTATAATAACACATGCTGGATATGGACGACCTGGCGACTCTGGATGGTCAAGACTGGCTGA
ATGACCAGGTCATTAATATGATGGTGTGAGCTGATAATGGATGCAGTCCCAGACAAAGTTCATTTCTCAA
CAGCTTTTTTTCATAGACAGCTGGTAACCAAGGATATAATGGAGTAAAAAGATGGACTAAAAAGGTGGAT
TTGTTTAAAAAGAGTCTTCTGTTGATTCTATTACCTGGAAGTCCACTGGTCTCTCATTACTGTGACAC
TCTCTAATCGAATTATTTCAATTTATGATTTCCAAAGGCATTCAATTTAAGTTTTGTGAGAGAATAAAG
AAAGTATTTGCTGACTGAAGCCAGAGAAAAAATAGACCTGAATTTCTCAGGGTTGGCAGACTGCTGTT
ACGAAGTGTATCCACAACAGAAAAACGACAGTACTGTGGAGTCTTTGTGCTCCAGTACTGCAAGTGCC
TCGCCTTAGAGCAGCCTTTCCAGTTTTCAAGAAGACATGCCCGAGTGCAGGAGGATTTACAAGGA
GCTATGTGAGTGCCGGCTCATGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205592 protein sequence
Red=Cloning site Green=Tags(s)

```
MKKQRKILWRKGIHLAFSEKWNTGFGGFKFYFHQHLKILKAKLRPVTWNRQLRHFQGRKKALQIQKTW
IKDEHLCAKTKFNVATQNVSTLSSKVRRKDAKHFISSSKTLRLQAEKLLSSAKNSDHEYCREKNLLKAV
TDFPNSALGQANGHRPRTPQPSDFPMKFNGESQSPGESGTVVTLNNHKRKGFCYGCCQGEHHRNGG
PLIPKKFQLNQHRRIKLSPLMMYEKLSMIRFRYRILRSQHFRTKSKVCKLRKAQRSWVQKVTGDHQETRR
ENGEGGSCSPFPSPKDPSCRHQYPFPDMDSSAVVKGTSNHPDCHTKGSSFLGKELSLDEAFPQQNG
SATNAWDQSSCSPKWECTELIHDIPLEHRSNTMFISETEREIMTLGQENQTSVSDDRVKLSVSGADT
SVSSVDGPVVSQKAVQENNSYQMEEDGSLKQSISSSELLDHPYCKSPLEAPLVCGLKLENQVGGGKNSQK
ASPVDDEQLSVCLSGFLDEVMKKYGSVPLSEKEVLGRLKDVFNEDFSNRKPFINREITNYRARHQKCNF
RIFYNKHMLDMDLATLDGQNLNDQVINMYGELIMDAVPDKVHFNSFFHRQLVTKGYNVGRWTKKVD
LFKKSLLLIPIHLEVHWSLITVTLNRIISFYDSQGIHFKFCVENIRKYLLTEAREKNRPEFLQGWQTAV
TKCIPQQKNDSDCGVFLVQYCKCLALEQPFQFSQEDMPVRVKRIYKELCECLMD
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6039_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152699

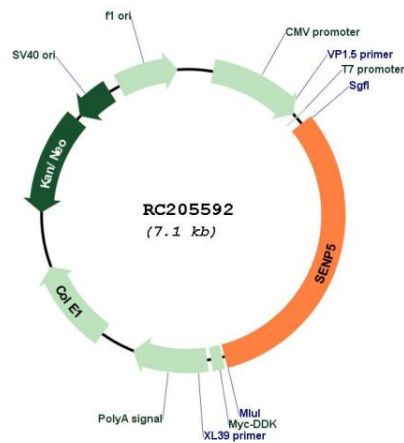
ORF Size: 2265 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

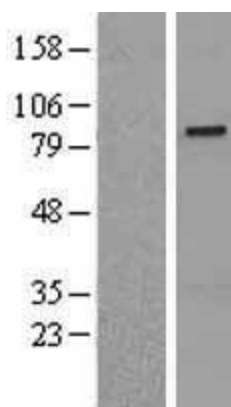
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_152699.3</u>
RefSeq Size:	6324 bp
RefSeq ORF:	2268 bp
Locus ID:	205564
UniProt ID:	<u>Q96HI0</u>
Cytogenetics:	3q29
Protein Families:	Druggable Genome, Protease
MW:	86.7 kDa
Gene Summary:	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]

Product images:



Circular map for RC205592



Western blot validation of overexpression lysate (Cat# [LY403484]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205592 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).