

Product datasheet for **RG205592**

SENP5 (NM_152699) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SENP5 (NM_152699) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SENP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG205592 representing NM_152699
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAAACAGAGGAAAATTCTATGGAGGAAAGGAATCCACTTAGCCTTTTCTGAGAAATGGAATACTG
 GGTTTGGAGGCTTTAAGAAGTTTTATTTTACCAACACTTGTGCATTCTGAAAGCTAAGCTGGGAAGGCC
 AGTTACTTGGAATAGACAGTTGAGACATTTCCAGGGTAGAAAGAAAGCTCTTCAAATCCAGAAAACGTGG
 ATCAAGGATGAACACCTTTGTGCTAAGACCAAGTCAATGTGGCTACTCAAAATGTTAGTACTTTGTCT
 CTAAGTGAAGAAAGGAGCCTAAACACTTCATTTCTCCTCAAAGACTCTCCTGAGACTCCAAGCAGA
 GAAGCTGTTGTCATCAGCAAAGAATTCTGACCATGAATACTGCAGAGAGAAAAATCTCTTGAAGGCAGTT
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 AGTGCCACAAACGCTGGGACCAGTCACTCTGTCTTCTCCTAAGTGGGAGTGTACAGAGCTGATTCAATG
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 ACGAAGTGTATCCACAACAGAAAAACGACAGTACTGTGGAGTCTTTGTGCTCCAGTACTGCAAGTGCC
 TCGCCTTAGAGCAGCCTTTCCAGTTTTCAAGAAGACATGCCCGAGTGCAGGAAGGATTTACAAGGA
 GCTATGTGAGTGCCGGCTCATGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205592 representing NM_152699
 Red=Cloning site Green=Tags(s)

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MKKQRKILWRKGIHLAFSEKWNTGFGGFKFYFHQHLICILKAKLGRPVTWNRQLRHFQGRKKALQIQKTW
IKDEHLCAKTKFNVATQNVSTLSSKVKRKDAKHFISSSKTLRLQAEKLLSSAKNSDHEYCREKNLLKAV
TDFPNSALGQANGHRPRTPDQPSDFPMKFNGESQSPGESGTIVVTLNNHKRKGFCYGCCQGP EHHRNGG
PLIPKFKQLNQHRRIKLSPLMMYEKLSMIRFRYRILRSQHFRTKSKVCKLRKAQRSWVQKVTGDHQETRR
ENGE GGS C S P F P S P E P K D P S C R H Q P Y F P D M D S S A V V K G T N S H V P D C H T K G S S F L G K E L S L D E A F P D Q Q N G
S A T N A W D Q S S C S S P K W E C T E L I H D I P L P E H R S N T M F I S E T E R E I M T L G Q E N Q T S S V S D D R V K L S V S G A D T
S V S S V D G P V S Q K A V Q N E N S Y Q M E E D G S L K Q S I L S S E L L D H P Y C K S P L E A P L V C S G L K L E N Q V G G G K N S Q K
A S P V D D E Q L S V C L S G F L D E V M K K Y G S L V P L S E K E V L G R L K D V F N E D F S N R K P F I N R E I T N Y R A R H Q K C N F
R I F Y N K H M L D M D D L A T L D G Q N W L N D Q V I N M Y G E L I M D A V P D K V H F N S F F H R Q L V T K G Y N G V K R W T K K V D
L F K K S L L L I P I H L E V H W S L I T V T L S N R I I S F Y D S Q G I H F K F C V E N I R K Y L L T E A R E K N R P E F L Q G W Q T A V
T K C I P Q Q K N D S D C G V F V L Q Y C K C L A L E Q P F Q F S Q E D M P R V R K R I Y K E L C E C R L M D
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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_152699.3](#)

RefSeq Size: 2788 bp

RefSeq ORF: 2268 bp

Locus ID: 205564

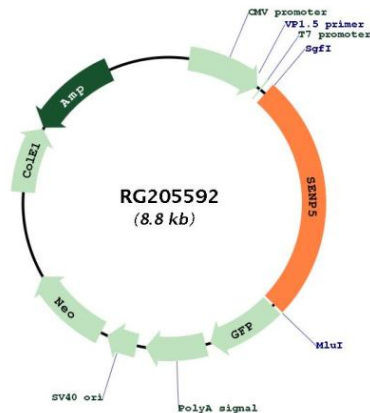
UniProt ID: [Q96HI0](#)

Cytogenetics: 3q29

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 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 RG205592