

Product datasheet for **RG221411**

SENP7 (NM_020654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SENP7 (NM_020654) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SENP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221411 representing NM_020654 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAAGAGAAAGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGT
CATCTTCTGATTTATCGGAGATAAGAAAGATGTTAAATGCAAACCAGAGGATGTCCATGTTCAATCACC
ACTGTCCAATTCAGAAGCTCAGAACGCTGGACTCTCCCTTTCAGTGGGAAAGAAGCCTAAGGAATAAA
GTCATCTCTAGACCATAAAAAACAAAAACATATCCGAGGGTGTCTGTTACTTCCAAGTCAACCCAG
AAAGGCAACTCAAAGTTATGTTGACGAATGTCCTATGGACGGATTTAGGACGAAAATTCAGAAAGACCCCT
ACCTAGA AACGATGCTAATTTATGTGATGCCAACCAAGGTGCAATCAGACTCATTGCCTTCGACATCTGTT
GACAGCCTAGAGACATGTCAAAAATTAGAACCTCTTCGCCAAAGCCTTAATTTATCTGAAAGGATACCCA
GAGTTATATTGACGAATGTCTGGGAACGGAGTTAGGAAGAAAATACATAAGGACCCACCTGTAAGTGA
GGGAAGTTGAGTGATACAGACAACTTGAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAA
TCTTATCAAAATCTAAACCCTCACAAAGAGCTGTTATTTATCTGAAAGGGGCTCACAAACGAAGTAAGACAG
TAGATGACAATTCGAAAGCAGACTGCGCACAATAAAGAAAAACGAAGAAAGGATGATGGCATTCTCT
TTAATATCTGATACTCAGCCTGAAGACCTTAACAGTGAAGTAGAGTTGTGATCATCTCGAACAGGAA
AGCAGAAACAAGGATGTTAAATATCTGATTCAAAGTGAAGTCACTCTGATTTCCAGGAAGACAAAGA
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AGGAGTTGACTTTGAGTAATGCCACAAAAGTGCCTCTGCCGGTTCAACCACTGAAACCGTTGAGAACTC
TAATCCATTGATATTGTGGGATTTCTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAA
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ATGAGATGGATCTACAATGGATTTTATATTTACTTCTGTTTATATTGGTAAAATAAAAGGAGCTTCTAA



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AGGTTGTGTTACAATCACAAAAAATATATTAAGATCCCATTTCAAGTGTCCCTGAATGAGATTTTCATTG
 CTAGTGGATACCACACATTTAAAGCGGTTTGGGTTATGGAAAAGTAAGGATGATAATCACAGTAAAAGGA
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 CCTAAAGTTCTTAAACAGGACAATAGCAGTGTGTTGGAGTATATTTATTGCAGTATGTGGAAAGCTTCT
 TCAAGGATCCTATTGTTAACTTTGAACTTCCAATTCATTTGGAGAAGTGGTTTCTCGTCATGTAATAAA
 GACCAAACGGGAAGATATTCGAGAGCTCATCTTGAACCTCATTACAGCAACAGAAGGGCAGCAGTAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221411 representing NM_020654
 Red=Cloning site Green=Tags(s)

MDKRKLGRPPSSSEIITEGKRKSSSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPLQWERSLRNK
 VISLDHKNQKHIRGCPVTSKSSPERQLKVMLTNVLWTDLGRKFRKTLPRNDANLCDANKVQSDSLPSTSV
 DSLETCQKLEPLRQSLNLSERIPRVILTNLVLTGELGRKYIRTPPVTEGSLSDTDNLQSEQLSSSSDGSLE
 SYQNLNPHKSCYLSERGSQRSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQE
 SRNKDVKYSDSKVELTISRKTKRRLRNNLPDSQYCTSLDKSTEQTKKQEDDSTISTEFKPSSENYHQDP
 KLPEEITTKPTKSDFTKLSLNSQELTSLNATKSASAGSTTETVENSNSIDIVGISSLVEKDENEINTIE
 KPILRGHNEGQSLISAEPVVSSDEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLELPLITCES
 VQMSSELCPYNPVMENISSIMPSNEMDLQDFIFTSVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISL
 LVDTHLKRFLWKSDDNHSKRSHAILFFWVSSDYLQEIQTQLEHVSLSQQSKSSEFIFLELHNPVSVQR
 EELKLDIMTEISIIISGELELSYPLSWVQAFPLFQNLSSKESSEFIHYCVSTCSFPAGVAVAEEMKLKSV
 SQPSNTDAAKPTYTFLQKQSSGCYSLSITSNPDEEWREVHTGLVQKLIVYPPPTKGGGLVNTNEDLECL
 EEEGFLNDVIIDFYLYKYLEKASDELVERSHIFSSFFYKCLTRKENNLTEDNPNLSMAQRRHRKRVRTWT
 RHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQQSQAQQSQNDNKIDNDRITSTLS
 LSAEDSQSTESNMSVPPKMCKRPCILILDLSKAASVQNTVQNLREYLEVEWEVKLTHRQFSKTNMVDLC
 PKVPKQDNSSDCGVYLLQYVESFFKDPIVNFELPIHLEKWFPRHVIKTKREDIRELILKLHLQQQKGS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_020654

ORF Size: 3150 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).

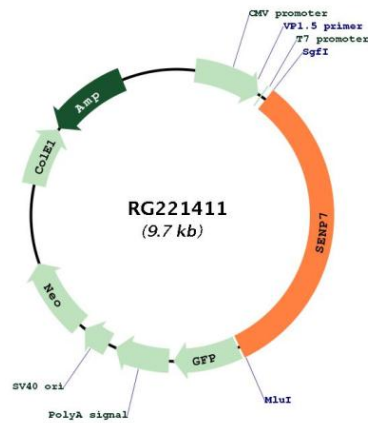
Reconstitution Method:

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_020654.3](#), [NP_065705.3](#)

RefSeq Size: 4934 bp

RefSeq ORF:	3153 bp
Locus ID:	57337
UniProt ID:	<u>Q9BQF6</u>
Cytogenetics:	3q12.3
Domains:	Peptidase_C48
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]

Product images:


Circular map for RG221411