

Product datasheet for **RG234645**

SENP1 (NM_001267594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SENP1 (NM_001267594) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SENP1
Synonyms:	SuPr-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234645 representing NM_001267594
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGATATTGCTGATAGGATGAGGATGGATGCTGGAGAAGTACTTTAGTGAACCACAACCTCCGTAT
 TCAAAACCCACCTCCTGCCACAAACAGTTTTCCAGAGGACCAGCTTTCGCTTCTGACCAGCAGATTTT
 ATCTTCCAGGCAAGGACATTTGGACCGATCTTTTACATGTTCCACAAGAAGTGCAGCTTATAATCCAAGC
 TATTACTCAGATAATCCTTCTCAGACAGTTTTCTGGCTCAGGCGATTTAAGAACCCTTTGGCCAGAGTG
 CAAATGGCCAATGGAGAAATTCTACCCCATCGTCAAGCTCATCTTTACAAAAATCAAGAAACAGCCGAAG
 TCTTTACCTCGAAACCCGAAAGACCTCAAGTGGATTATCAAACAGTTTTGCGGAAAGTCAAACCATCAC
 TGCCATGTATCTGCATATGAAAAATCTTTTCTATTAACCTGTTCCAAGTCCATCTTGGAGTGGTTCAT
 GTCGTGGAAGTCTTTGAGCCCCAAGAAAACCTCAGAGGCGACATGTTAGTACAGCAGAAGAGACAGTTCA
 AGAAGAAGAAAGAGAGATTTACAGACAGCTGCTACAGATGGTACAGGAAACAGTTTACTATAGCCAAA
 CCACCACACATTTTCTTTACACCTGTCTCGATGCTTGTAGTCCAGTAAAAATACTTTGAAAGACTCAC
 TGTTTAAAAATGGAACTCTTGTGCATCTCAGATCATTGGCTCTGATACTTCATCATCTGGATCTGCCAG
 CATTTTAACTAACCGGAACAGCTGTCCCACAGTGATATTCCCTATCTTCTTATACCCAGATGTTGCA
 TTTGGATCCAAAGATTCTGGTACTCTTCATCATCCCCATCACCACCTGTCCACATCAGCCAGATA
 ACTTAGCAGCTTCAAATACAACTCTGAAGGATCAGACTCTGTGATTTTACTGAAAGTAAAAGATTTCCCA
 GACTCCAACTCCCAGTTCTACTTTCTCCAGGCAGAGCTGTGGATCAAAGAATTAAGTGTATGAT
 TCTCGAGCAGGAAAGATTGCGCCAGATTGAAGAACAGAAGGCATTGGCCTTACAGCTTCAAACCCAGA
 GATTGACGAGCGGGAACATTCACTGATGATTCACTAGTGAATCACTCTCGTGTACTCTTGAAGGA
 GATTCCTGTTACTGTTGTTCAAGAAACACAAAAAAGGTCATAAATTAAGTGTAGTGAAGATGAATTT
 CCTGAAATTACAGAGAAATGGAGAAAGAAATAAAGAATGATTTTCGTAATGGGAATCAGGATGAAGTTC
 TCAGTGAAGCATTTGCGCTGACCATTACACGCAAAGATATTCAAACCTCTAAACCATCTGAATTGGCTCAA
 TGATGAGATCATCAATTTCTACATGAATATGCTGATGGAGCGAAGTAAAGAGAAGGGCTTCCAAGTGTG
 CATGCATTTAATACCTTTTTCTTCACTAAATAAAAACGGCTGGTTATCAGGCAGTGAACGTTGGACAA
 AGAAAGTAGATGATTTTCTGTTGACATCTTTTGGTGGCCATTACCTGGGAGTACACTGGTGTCTAGC
 TGTTGTGGACTTTAGAAAGAAGAATATTACCTATTACGACTCCATGGGTGGGATAAACAATGAAGCCTGC
 AGAATACTCTTGAATACCTAAAGCAAGAAAGCATTGACAAGAAAAGGAAAGAGTTTGACACCAATGGCT
 GGCAGCTTTTACGAAGAAAAGCCAGGAGATTCCTCAGCAGATGAATGGAAGTACTGTGGGATGTTTGC
 CTGCAATATGCTGACTGTATTACCAAAGACAGACCAATCAACTTACACAGCAACACATGCCACTTCC
 CGGAAGCGGATGGTCTGGGAGATCCTCCACCGAAAACCTTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234645 representing NM_001267594
 Red=Cloning site Green=Tags(s)

MDDIADRMMDAGEVTLVNHNSVFKTHLLPQTGFPEQQLSLSDQQILSSRQGHLDERSFTCSTRSAAYNPS
 YYSDNPSSDSFLGSGDLRTFGQSANGQWRNSTPSSSSSLQKSRNSRSLYLETRKTSSGLSNSFAGKSNHH
 CHVSAYEKSFPKPVPSWSGSCRRSLLSPKKTQRRHVSTAEETVQEEEREIYRQLQMVTGKQFTIAK
 PTTFFPLHLRCLSSSKNTLKDLSLFKNGNSCASQIIGSDTSSSGSASILTQEQLSHVSYSLSSTYTPDVA
 FGSKDSGTLHHPHHHHSVPHQPDNLAASNTQSEGSDSVILLKVKDSQTPPSSTFFQAELOWIKELTSVYD
 SRARERLRQIEEQKALALQLQNRLQEREHSVHDSVELHLRVPLEKEIPVTVVQETQKKGHKLTDEDEF
 PEITEEMEKEIKNVFRNGNQDEVLSAERLITRDKIQTNLHNLNDEIINFYMNMLMERSKEKGLPSV
 HAFNTFFFTKLKTAGYQAVKRWTKKVDVFSVDILLVPIHLGVHWCLAVVDFRKNKITYYDSMGGINNEAC
 RILLQYLKQESIDKKRKEFDTNWQLFSKKSQEIQQMNGSDCGMFAKYADCITKDRPINFQQHMPYF
 RKRMVWEILHRKLL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001267594

ORF Size: 1932 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_001267594.2](#)

RefSeq Size: 4693 bp

RefSeq ORF: 1935 bp

Locus ID: 29843

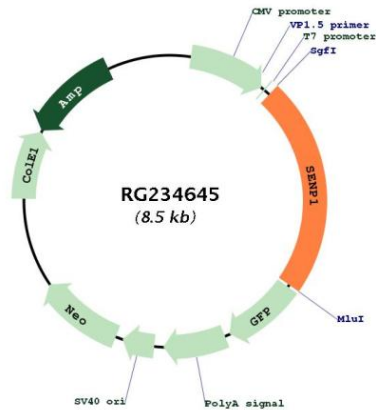
UniProt ID: [Q9P0U3](#)

Cytogenetics: 12q13.11

Protein Families: Druggable Genome, Protease

Gene Summary: This gene encodes a cysteine protease that specifically targets members of the small ubiquitin-like modifier (SUMO) protein family. This protease regulates SUMO pathways by deconjugating sumoylated proteins. This protease also functions to process the precursor SUMO proteins into their mature form. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RG234645