

Product datasheet for **RG236237**

SEN7 (NM_001282804) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SEN7 (NM_001282804) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SEN7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236237 representing NM_001282804.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTAAATGCAAACCAGAGGATGTCCATGTTCAATCACCAGTGTCCAAATTCAGAAGCTCAGAACGC
TGGACTCTCCCTTTGCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTCTAGACCATAAAAAATAA
AAACATATCCGAGGGTGTCTGTACTTCCAAGTCATCACCAGAAAGGCAACTCAAAGTTATGTTGACG
AATGTCCTATGGACGGATTTAGGACGAAAATTCAGAAAGACCCTACCTAGAAACGATGCTAATTTATGT
GATGCCAACAAAGGTGCAATCAGACTCATTGCCTTCGACATCTGTTGACAGCCTAGAGACATGTCAAAAA
TTAGAACCTCTTCGCCAAAGCCTAATTTATCTGAAAGGGGCTCACAAACGAAGTAAGACAGTAGATGAC
AATTCTGCAAAGCAGACTGCGCACAAATAAAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTAATA
TCTGATACTCAGCCTGAAGGTTTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236237
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLNAKPEDVHVQSPLSKFRSSERWTLPLQWERSLRNKVISLDHKNKHIRGCPVTSKSSPERQLKVMLT
NVLWDLGRKFRKTLPRNDANLCDANKVQSDSLPSTSVDSLETQKLEPLRQSLNLSERGSQRSKTVDD
NSAQTAHNKEKRRKDDGISLLISDTQPEGL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001282804

ORF Size: 507 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).

RefSeq: [NM_001282804.1](#), [NP_001269733.1](#)

RefSeq Size: 827 bp

RefSeq ORF: 510 bp

Locus ID: 57337

UniProt ID: [Q9BQF6](#)

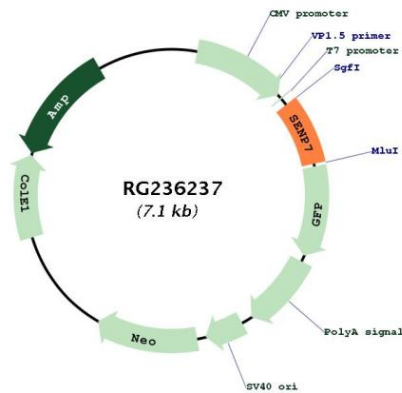
Cytogenetics: 3q12.3

Protein Families: Druggable Genome, Protease

MW: 19.7 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 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 RG236237