

Product datasheet for **MG209692**

Senp1 (NM_144851) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Senp1 (NM_144851) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Senp1 |
| Synonyms: | 2310046A20Rik; D15Erttd528e; E330036L07Rik; suPr-2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG209692 representing NM_144851
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATGACACAGCTGATGGGGTGAAGATGGACGCTGGGGAGGTGACCTTAGTGAACCACGGCTCCACTT
 TCAGAACCACCCGCCACAGTCAGGCTTCCAGAGGAGCAGCTTCTGCTTTCTGACCAGCAGAGCTT
 GCCTTTCAGGCAGGGTACTTTAGATGGATCTTTCACGTGTTCTACAAGAAGCCAGCCTATCGTCCAGAT
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 GTCTGGGAGATCTCCACCGGAAGCTCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209692 representing NM_144851
 Red=Cloning site Green=Tags(s)

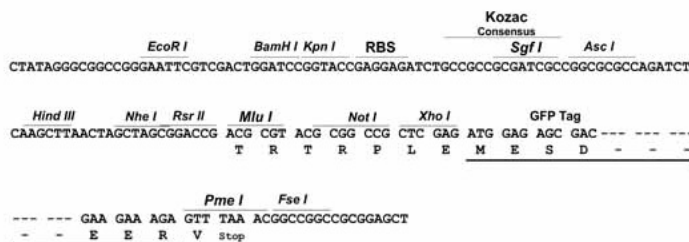
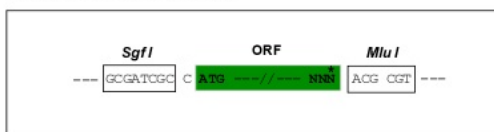
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 CHMSAYEKSFPIKPAPSPSWGSCRRSLLSPKKTQRRHFSTAETVQEEKEIYRQLLQMVTGKQFCVAK
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 ERLRRIIEQKALALQLQNQLQEHEAVLDSVELHLRVPLEKEIPVTAQETRKKSHQLTDESEDFPEIT
 EEMEKEIKNVFRNGNQDEVLSEAFRLTITRKDIQTLNHLNWLNDEIINFYMNMLMERSKEKGFPSVHAFN
 TFFFTKLKTAGYQAVKRWTKKVDVFSVDILLVPIHLGVHWCLAVVDFRRKSITYYDSMGINNEACRILL
 QYLKQESVDKRRKEFDTNWQLFSKKSQEIPIQQMNGSDCGMFACKYADCITKDRPINFQQHMPYFRKRM
 VWEILHRKLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_144851

ORF Size: 1920 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_144851.5](#), [NP_659100.1](#)

RefSeq Size: 6415 bp

RefSeq ORF: 1923 bp

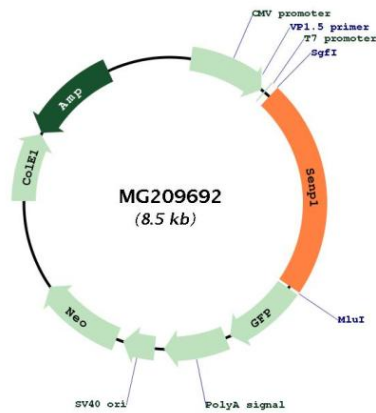
Locus ID: 223870

UniProt ID: [P59110](#)

Cytogenetics: 15 54.04 cM

Gene Summary: Protease that catalyzes two essential functions in the SUMO pathway (PubMed:15923632, PubMed:29499132). The first is the hydrolysis of an alpha-linked peptide bond at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptides, SUMO1, SUMO2 and SUMO3 leading to the mature form of the proteins. The second is the deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins, by cleaving an epsilon-linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine epsilon-amino group of the target protein. Deconjugates SUMO1 from HIPK2 (By similarity). Deconjugates SUMO1 from HDAC1 and BHLHE40/DEC1, which decreases its transcriptional repression activity (By similarity). Deconjugates SUMO1 from CLOCK, which decreases its transcriptional activation activity (By similarity). Deconjugates SUMO2 from MTA1 (By similarity). Deconjugates SUMO2 from MTA1 (By similarity). Deconjugates SUMO1 from METTL3 (By similarity). Desumoylates CCAR2 which decreases its interaction with SIRT1 (By similarity). Deconjugates SUMO1 from GPS2 (PubMed:29499132).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209692