

## Product datasheet for **RG208109**

### SENP2 (NM\_021627) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SENP2 (NM_021627) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SENP2
Synonyms:	AXAM2; SMT3IP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208109 representing NM\_021627  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTACAGATGGCTGGTTAGGATTCTCGCACCATTTCCGTTTCTGCGACCGGTGGTCCCCCTGCC  
 GGGCCCTCCTGAAGAGGGCGCTCAGACAGCACTCTGTTTTCTACAGTGGACACTGATGAAATACCAGC  
 CAAAAGACCAAGATTAGATTGCTTTATTACCAAGTAAAAACAGTCTCTACAATGCTGCCAGCTTATTT  
 GGATTCCATTCCAGCTGACCACAAAGCCCATGGTAACCTCTGCTTGAATGGAACACGGAATGTGGCC  
 CTTCAGGAGAGGTATTTTCGAACTCTTCATCTTGTGAAGTACAGGTTCTGGATCCTGGAACAACATGCT  
 GAAACTGGGTAATAAATCTCCTAATGGAATAAGTACTATCCAAAGATCAGAGTACAGTACCCGAGAT  
 CAGCCACGAGAGTCTGCCTTCTTTGGTTTTACTTTGAACTCAGAAGGCTGTAATAGAAGACCAGGTG  
 GCCGTCGCCATAGCAAAGGTAATCCAGAGAGTTCTTTAATGTGGAACCTCAGGAACAGGCTGTAACAGA  
 GATGATTTCTGAAGAGAGTGGCAAGGCTGAGGCGTCCCATTTGACTGTGGAGGAGGGTGTCAA  
 GAGGAAAGAGAGAAGTACCGAAAGTTATTGGAACGACTTAAAGAAAGTGGTCATGGAAACTCTGTCTGC  
 CTGTAACCTCAAATTATCACAGTTCTCAAAGAAGTCAGATGGACACATTAAGACCAAAGGCTGGGGGA  
 AGAGCAAATCACGGAGTCAAAACAACCTCAGTTTGTCCAAAACAATATAGACTTGTGAAACAAGGGGA  
 CCTCTATGTTTATTGAGAAGTAAAAGAGGTGTTCAAAGGGGAAAATTACTGATACAGAGACGATGGTGC  
 GAATCAGATTTGAAAATGAAAGTAGGAGGGGATACCAACTGGAGCCTGACCTATCAGAAGAAGTGTCCGC  
 CCGACTCCGCTGGGCAGTGAAGCAATGGCTTACTCAGGAGGAAAGTGTCAATAATTGAGACAAAGGAA  
 AAGAATTGCTCAGGCAAAGAGAGGGACAGAAGAACGGACGATCTCCTTGAACCTACAGAGGACATGGAAA  
 AGGAAATCAGTAATGCCCTAGGCCATGGCCACAGGATGAAATCCTAAGTAGTGTCTTTCAAATTCGAAT  
 TACTCGAGGAGATATTCAGACATTAAGAAGTACTCACTGGCTCAATGATGAAGTCATTAATTTTACATG  
 AATCTTCTGGTGGAAAGAAATAAAAGCAAGGCTATCCAGCATTCTCATGATTTCAGTACTTTCTTCTATC  
 CTAATTAAGTCTGGGGTTACCAAGCAGTGAACGATGGACAAAGGGTAAATCTCTTTGAACAAGA  
 AATTATTCTGGTGCCTATTCATCGGAAGGTACATTGGAGCCTGGTGGTATTGACCTAAGAAAAAAGTGT  
 CTTAAATATCTGGATTCTATGGACAAAAGGGCCACAGGATCTGTGAGATTCTCCTTCAGTATTTACAGG  
 ATGAAAGTAAACCAAAGAAATAGTGATCTGAATCTTTTAGAGTGGACCCATCACAGCATGAAACCACA  
 CGAGATTCCTCAACAGCTGAATGGGAGTATTGTGGAATGTTACTTGTAAATATGCAGATTATTTCT  
 AGGGACAAACCTATCACATTTACTCAGCACCAGATGCCTCTCTCCGGAAGAAGTGGTGTGGGAAATCC  
 TTCATCAGCAGTTGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208109 representing NM\_021627  
 Red=Cloning site Green=Tags(s)

MYRWLVIRILGIFRCDRSVPPARALLKRRRSDSTLFSTVDTDEIPAKRPRLDLFIHQVKNSLYNAASLF  
 GFPPQLTKPMVTSACNGTRNVAPSGEVFVSNSSCELTGSGSWNMLKLGKNSPNGISDYPKIRVTVTRD  
 QPRRVLPSTGFTLNSEGCNRRPGRHRSKGNPESSLMWKPQEQAVTEMISEESGKGLRRPHCTVEEVQK  
 EEREKYRLLERLKESGHGNSVCPVTSNYHSSQRSQMDLTKTGWGEEQNHGVKTTQFVPKQYRLVETRG  
 PLCSLRSEKRCCKGKITDTETMVGIRFENESRRGYQLEPDLSEEVSARLRLGSGSNGLLRKVSIIETKE  
 KNCSEKRRDRRDLLELLEDMEKEISNALGHGPQDEILSSAFKLRIITRDIQTLKNYHWNDEVINFYM  
 NLLVERNKKQGYPALHVFSTFFYPKLSGGYQAVKRWTKGVNLFQEIILVPIHRKVHWSLVVIDLRKCC  
 LKYLDSMGQKGRICEILLQYLQDESKTKRNSDLNLEWTHHSMKPHEIPQQLNGSDCGMFTCKYADYIS  
 RDKPITFTQHQMPLFRKMMWEILHQQLL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_021627

**ORF Size:** 1767 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\\_021627.3](#)

**RefSeq Size:** 3207 bp

**RefSeq ORF:** 1770 bp

**Locus ID:** 59343

**UniProt ID:** [Q9HC62](#)

**Cytogenetics:** 3q27.2

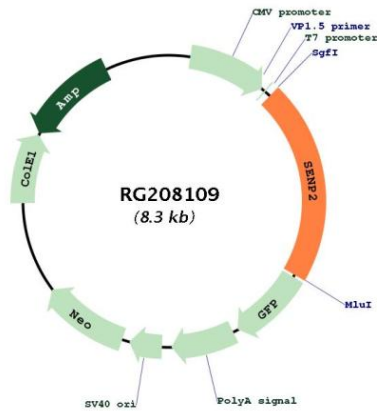
**Domains:** Peptidase\_C48

**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Wnt signaling pathway

**Gene Summary:** SUMO1 (UBL1; MIM 601912) is a small ubiquitin-like protein that can be covalently conjugated to other proteins. SENP2 is one of a group of enzymes that process newly synthesized SUMO1 into the conjugatable form and catalyze the deconjugation of SUMO1-containing species.[supplied by OMIM, Apr 2004]

**Product images:**



Circular map for RG208109