

## Product datasheet for **MG224063**

### Prcp (NM\_028243) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prcp (NM_028243) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prcp
Synonyms:	2510048K03Rik; 2610104A14Rik; AI451719; HUMPCP; PCP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224063 representing NM\_028243  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCTGCCGGCTCTCCTGCTCTTCTTCTATTACTCGGGGCCGCCACAACCATCCCGCCTAGGC  
 TAAAGACCCTCGGCAGCCCGCATTGTGTCAGCCAGTCCCACACCCGACCCTGCTGTAGCCCGTAAATACTC  
 AGTTCTTTACTTCGAACAGAAGTTGACCACTTTGGGTTTGTGACATGAGAACCTTTAAACAGCGGTAC  
 CTAGTCGCTGATAAACTGGCAGAGAAATGGTGGATCAATACTTTCTACACTGGTAACGAAGGGGACA  
 TTGTCTGGTTTTGCAATAATACGGGTTTCATGTGGGATGTGGCTGAGGAGCTGAAAGCTATGCTGGTGT  
 CGCTGAGCATCGATACTATGGGGAGTCCCTTCCCTTTGGTCAGGACTCCTTCAAGGATCCCAACTTGT  
 AATTTCTGACATCAGAACAGGCTCTGGCTGATTTGCAGAGTTAATCAGACACTGGAAAAACAATCC  
 CAGGAGCTCAAGGTCAACTGTCATCGCCATCGGGGCTCTTATGGTGGCATGCTTGAGCCTGGTTCAG  
 GATGAAGTATCCTCACATTGTAGTTGGAGCTCTTGCAGCTTCTGCCCTATCTGGCAGCTTGATGGTATG  
 GTCCCTGTGGTGAAGTTATGAAGATTGAACTAACGATTTTCAGGAAAAGTGGTCCCTATTGTTCCAGAAA  
 GTATCCGCAAATCCTGGAATGTCATTGACAAACTCTCAGGTTTCAGGCAGTGGTCTCCAGTCGCTCAGGAA  
 CATTCTTACCTATGTAGTCCCTTGACTTCTGAGAAAAATCCCAACTTTAAAAGGATGGATAGCTGAGACC  
 TGGGTGAACCTGGCCATGGTGAACCTACCGCATGCAACTTTTTGCAGCCTTTGCTGCTTGGCCCA  
 TCAAGGAGGTGTGCAATATTTGAAAAATCCTAATGTATCGGATACAGTGTCTGTCAGAAATTTTTCCA  
 AGCTCTGAGTGTATTTAACTATTGAGGCAAGCAGCATGCCTGAATATTTCAAAACGACTACGAGC  
 AGTCTGGGCTCCATGGGCTGGAGCTTTCAGGCCGTCACAGAAATGGTATGCCCTTTTGTACTAATGGTA  
 TTGATGACATGTTTGAACCTTTCTGTGGGACTTGGAGAAGTATCCAATGACTGTTTTAACCAAGTGGGG  
 AGTGAAACCACCGCCTCATTGGATGACTACCATGTACGGTGGCAAAAACATCAGTTACACTCAAACATC  
 ATTTTCAGCAATGGTGAAGTTAGACCCGTTGGTTCAGGAGGTGGAGTAACCAGAGACATCACAGACACCTGG  
 TGGCTATCAACATCCATGACGGGCCCATCATTTAGATCTCCGAGCCACAACGCCTTCGATCCTTCCTC  
 TGTGCTGTATCTCGATTATTGGAAGTTAAACACATGAAGAAATGGATTTTAGATTTCTATAGCAATATC  
 CAA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG224063 representing NM\_028243  
 Red=Cloning site Green=Tags(s)

MGCRALLLSFLLLGAATTIPRLKTLGSPHLSASPTPDPVARKYSVLVFEQKVDHFGFADMRTFKQRY  
 LVADKHWQRNGSILFYTGNEGDIVWFCNNTGFMWDVAEELKAMLVFAEHRYYGESLPGQDSFKDSQHL  
 NFLTSEQALADFAELIRHLEKTIPGAQQPVIAIGGSYGGMLAAWFRMKYPHIVGALAASAPIWQLDGM  
 VPCGEFMKIVTNDFRKSGPYCSESIRKSWNVIDKLSGSGSGLQSLTNILHLCSPLTSEKIPTLKGWIAET  
 WYNLAMVNYPYACNFLQPLPAWPIKEVCQYLKNPNVSDTVLLQNIQALSVYYNYSQAACLNISQTTTS  
 SLGSMGWSFQACTEMVMPFCTNGIDDMFEPFLWDLEKYSNDCFNQGVKPRPHWMTTMYGGKNISHSNI  
 IFSNGELDPWSSGGVTRDITDTLVAINIHDGAHLLDLRAHNAFDPSSVLLSRLLEVKHMKKWILDFYSNI  
 Q

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

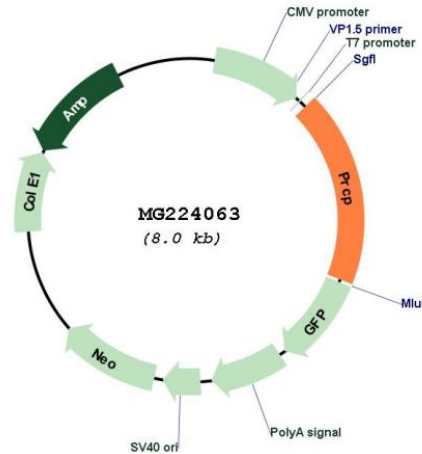
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_028243

ORF Size: 1473 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\\_028243.3](#), [NP\\_082519.1](#)

**RefSeq Size:** 2964 bp

**RefSeq ORF:** 1476 bp

**Locus ID:** 72461

**UniProt ID:** [Q7TMR0](#)

**Cytogenetics:** 7 E1

**Gene Summary:** Cleaves C-terminal amino acids linked to proline in peptides such as angiotensin II, III and des-Arg9-bradykinin. This cleavage occurs at acidic pH, but enzymatic activity is retained with some substrates at neutral pH (By similarity).[UniProtKB/Swiss-Prot Function]