

## Product datasheet for **RG200677**

### PRCP (NM\_005040) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRCP (NM_005040) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRCP
Synonyms:	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:**

>RG200677 representing NM\_005040  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGCCGCCGAGCCCTCTGCTCTGCTTCTGTCTTTCTGGCGCCTGGGCCACCATAGCCCTCCGGC  
 CGGCCTTAAGGGCCCTCGGCAGCCTACACTTGCCAACCAACCCACATCCCTCCCGCTGTAGCCAAGAA  
 CTATTCGGTTCTCTACTTCCAACAGAAGTTGATCATTGTTGATTAACTGTGAAAACTTTAATCAG  
 CGGTACCTAGTAGCTGATAAACTGGAAGAAAAATGGTGGATCAATACTTTTCTACACTGGTAATGAAG  
 GGGACATTATCTGGTTTTGTAATAACACGGGTTTATGTGGGATGTGGCTGAGGAACTGAAAGCTATGTT  
 GGTGTTTCTGACATCGATACTATGGAGAGTCTCTCCCTTTGGTGACAACCTATTCAAGGATTCCAGA  
 CACTTGAATTTCTGACATCAGAACAAGCTCTGGCTGATTTTGCAGAGTTAATCAAACACTTGAAAAAGAA  
 CAATCCCAGGAGCTGAAATCAACCTGTCATTGCCATAGGAGGCTCCTATGGTGGCATGCTTGCCGCTG  
 GTTTAGGATGAAATATCCTCATATGGTAGTTGGAGCTCTTGCAGCTTCTGCCCTATCTGGCAGTTTGGAG  
 GATTTAGTACCTTGTGGTGTATTTATGAAGATCGTAACTACAGATTTTAGGAAAAGCGGTCCACATTGTT  
 CAGAGAGCATCCACAGGCTCTGGGATGCCATTAATCGACTCTCAAATACTGGCAGTGGTTTGCAGTGGCT  
 TACTGGAGCCCTTCACTTATGCAGCCATTAACCTTCTCAGGACATCCAACATTTGAAAGACTGGATCTCT  
 GAAACCTGGGTGAATCTGGCAATGGTGGACTATCCTTATGCCTCTAACTTTTACAGCCTTTGCCTGCTT  
 GGCCTATCAAGGTAGTGTGCCAGTATTTGAAAAATCCCAATGTATCTGATTCAGTCTGCTGCAGAATAT  
 TTTCCAAGCTCTGAATGTATATTACAATTATTCGGGCCAGGTGAAATGCCTGAATATTTCCAGAGACAGCA  
 ACTAGCAGTCTGGGAACACTGGGTTGGAGCTATCAGGCCTGCACAGAAGTAGTCATGCCCTTTTGTACTA  
 ATGGTGTGATGACATGTTTGAACCTCACTCAGAACTTAAAGGAACTTCTGATGACTGTTTTCACAA  
 GTGGGGTGTGAGACCAAGGCCCTCTGGATCACTACTATGTATGGAGGCAAAAACATTAGTTCACACACA  
 AACATTGTTTTAGCAATGGTGAAGTACCCCTGGTCCAGGAGTGGAGTAACTAAGGATATCACAGACA  
 CTCTGGTTGCAGTACCATCTCAGAGGGGGCCACCCTAGATCTCCGCACCAAGAATGCCTGGATCC  
 TATGTCTGTGCTTTAGCCCGCTCTTGGAAAGTTAGACATATGAAGAATTGGATCAGAGATTTCTATGAC  
 AGTGCGGGAAAGCAGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG200677 representing NM\_005040  
 Red=Cloning site Green=Tags(s)

MGRRLLLLLLLFLAPWATIALRPALRALGSLHLPNTSLPAVAKNYSVLYFQQKVDHFGFNTVKTFNQ  
 RYLVDADKYWKNGGSILFYTGNEGDIWFNCNNTGFMWDVAEELKAMLVFAEHRYYGESLPGDNSFKDSR  
 HLNFLTSEQALADFAELIKHLKRTIPGAENQPVIAIGGSYGGMLAAWFRMKYPHMVVGGALASAPIWQFE  
 DLVPCGVFMKIVTTDFRKSQPHCSSEIHRSDAINRLSNTGSLQWLTGALHLCSPLTSQDIQHLKDWIS  
 ETWVNLAMVDYPYASNFLQPLPAWPIKVVQCQYLKPNVSDSLLLQNIQALNVYYNYSQVQKCLNISETA  
 TSSLGTLGWSYQACTEVVMPFCTNGVDDMFEPHSWNLKELSDDCFQQWGVRRPWSWITMYGGKNISSHT  
 NIVFSNGELDPWSGGVTKDITDTLVAVTISEGAHHLDLRTKNALDPMSVLLARSLEVRHMKNWIRDFYD  
 SAGKQH

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_005040

ORF Size: 1488 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\\_005040.4](#)

RefSeq Size: 2161 bp

RefSeq ORF: 1491 bp

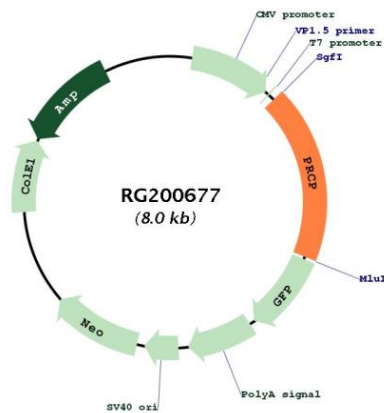
Locus ID: 5547

UniProt ID: [P42785](#)

Cytogenetics: 11q14.1

<b>Domains:</b>	abhydrolase
<b>Protein Families:</b>	Druggable Genome, Protease, Transmembrane
<b>Gene Summary:</b>	This gene encodes a member of the peptidase S28 family of serine exopeptidases. The encoded preproprotein is proteolytically processed to generate the mature lysosomal prolylcarboxypeptidase. This enzyme cleaves C-terminal amino acids linked to proline in peptides such as angiotension II, III and des-Arg9-bradykinin. The cleavage occurs at acidic pH, but the enzyme activity is retained with some substrates at neutral pH. This enzyme has been shown to be an activator of the cell matrix-associated prekallikrein. The importance of angiotension II, one of the substrates of this enzyme, in regulating blood pressure and electrolyte balance suggests that this gene may be related to essential hypertension. A pseudogene of this gene has been identified on chromosome 2. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]

### Product images:



Circular map for RG200677