

Product datasheet for **RG212658**

PRCP (NM_199418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRCP (NM_199418) 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:

>RG212658 representing NM_199418
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCGCCGAGCCCTCTGCTCTGCTTCTGTCTTTCTGGCGCCTGGGCCACCATAGCCCTCCGGC
 CGGCCTTAAGGGCCCTCGGCAGCCTACACTTGCCAACCAACCCACATCCCTCCCGGCTGTAGCCAAGAA
 CTATTCGGTTCTCTACTTCCAACAGAAGGCCCTTGCTGCTGGGCAGTTGCACATATGTATTATCCAAC
 AATCATTACAAGACTCCTCTGGTTGATCATTGGATTTAATACTGTGAAAACCTTTAATCAGCGGTACC
 TAGTAGCTGATAAATACTGGAAGAAAAATGGTGGATCAATACTTTTCTACACTGGTAATGAAGGGGACAT
 TATCTGGTTTTGTAATAACACGGGGTTCATGTGGGATGTGGCTGAGGAACTGAAAGCTATGTTGGTGT
 GCTGAACATCGATACTATGGAGAGTCTCTCCCTTTGGTGAACACTCATTCAAGGATTCAGACACTTGA
 ATTTCTGACATCAGAACAAGCTCTGGTGATTTTGCAGAGTTAATCAAACACTTGAAAAGAACAATCCC
 AGGAGCTGAAAATCAACCTGTCATTGCCATAGGAGGCTCTATGGTGGCATGCTTGCCGCTGGTTTAGG
 ATGAAATATCCTCATATGGTAGTTGGAGCTCTGCAGCTTCTGCCCTATCTGGCAGTTTGAGGATTAG
 TACCTTGTGGTGTATTTATGAAGATCGTAACTACAGATTTTAGGAAAAGCGGTCCACATTGTTCCAGAG
 CATCCACAGGTCCTGGGATGCCATTAATCGACTCTCAAATACTGGCAGTGGTTTGCAGTGGCTTACTGGA
 GCCCTTCACTTATGCAGCCCATTAACCTTCTCAGGACATCCAACATTTGAAAGACTGGATCTCTGAAACCT
 GGGTGAATCTGGCAATGGTGGACTATCCTTATGCCTCTAACTTTTACAGCCTTTGCCTGCTTGGCTAT
 CAAGGTAGTGCCAGTATTTGAAAAATCCCAATGTATCTGATTCACTGCTGCTGCAGAATATTTCCAA
 GCTCTGAATGTATATTACAATTATTCGGGCCAGGTGAAATGCCTGAATATTTAGAGACAGCAACTAGCA
 GTCTGGGAACACTGGGTTGGAGCTATCAGGCCTGCACAGAAGTAGTCATGCCCTTTGTACTAATGGTGT
 CGATGACATGTTTGAACCTCACTATGGAACCTTAAAGGAACTTTCTGATGACTGTTTTCAACAGTGGGGT
 GTGAGACCAAGGCCCTCCTGGATCACTACTATGTATGGAGGCAAAAACATTAGTTCACACACAAACATTG
 TTTTCAGCAATGGTGAAGTAGACCCCTGGTCAGGAGGTGGAGTAACTAAGGATATCACAGACACTCTGGT
 TGCAGTACCATCTCAGAGGGGGCCACCCTTAGATCTCCGCACCAAGAATGCCTTGGATCCTATGTCT
 GTGCTGTAGCCCGCTCCTTGAAGTTAGACATATGAAGAATTGGATCAGAGATTTCTATGACAGTGGCG
 GAAAGCAGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212658 representing NM_199418
 Red=Cloning site Green=Tags(s)

MGRRALLLLLLFLAPWATIALRPLRALGSLHLPTNPTSLPAVAKNYSVLYFQQKALAAGQLHICIIQL
 NHYKTPLVDHGFNTVKTFNQRYLVADKYWKNGGSILFYTGNEGDIWFNNTGFMWDVAEELKAMLVF
 AEHRYYGESLPGDNSFKDSRHLNFLTSEQALADFAELIKHLKRTIPGAENQPVIAGGSYGGMLAAWFR
 MKYPHMVVGALAAASAPIWQFEDLVPCGVFMKIVTTDFRKSQPHCSSEIHRSDAINRLSNTGSLQWLTG
 ALHLCSPLTSQDIQHLKDWISETWVNLAMVDYPYASNFLQPLPAWPIKVVQCQYLKPNVSDSLLLQNIQ
 ALNYYNYSGQVKCLNISETATSSLGTLGWSYQACTEVVMPFCTNGVDDMFEPHSWNLKELSDDCFQWGW
 VRPRPSWITTMYGKNISSHTNIVFSNGELDPWSSGGVTKDITDLVAVTISEGAHHLDLRTKNALDPMS
 VLLARSLEVRHMKNWIRDFYDSAGKQH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_199418

ORF Size: 1551 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_199418.3](#)

RefSeq Size: 2224 bp

RefSeq ORF: 1554 bp

Locus ID: 5547

UniProt ID: [P42785](#)

Cytogenetics: 11q14.1

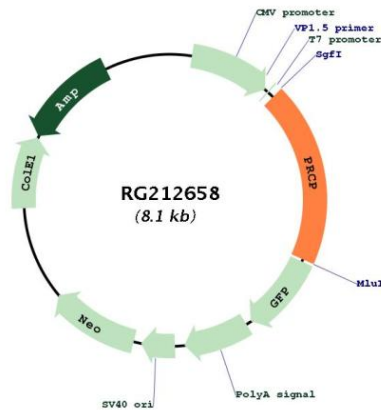
Protein Families:

Druggable Genome, Protease, Transmembrane

Gene Summary:

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 RG212658