

Product datasheet for **RG203596**

Prolyl Endopeptidase (PREP) (NM_002726) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prolyl Endopeptidase (PREP) (NM_002726) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prolyl Endopeptidase
Synonyms:	PE; PEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG203596 representing NM_002726
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTCCCTTCAGTACCCCGACGTGTACCGCGACGAGACCGCGTACAGGATTATCATGGTCATAAAA
 TTTGTGACCCTTACGCCTGGCTTGAAGACCCCGACAGTGAACAGACTAAGGCCTTTGTGGAGGCCAGAA
 TAAGATTACTGTGCCATTTCTTGAGCAGTGTCCCATCAGAGGTTTATACAAAGAGAGAATGACTGAACTA
 TATGATTATCCCAAGTATAGTTGCCACTTCAAGAAAGGAAAACGGTATTTTTATTTTTACAATACAGGTT
 TGCAGAACCAGCGAGTATTATATGTACAGGATTCCTTAGAGGGTGAAGCCAGAGTGTCTCGACCCCAA
 CATACTGTCTGACGATGGCACAGTGGCACTCCGAGGTTATGCGTTCAGCGAAGATGGTGAATTTTTGCC
 TATGGTCTGAGTCCAGTGGCTCAGACTGGGTGACAATCAAGTTCATGAAAGTTGATGGTCCAAAGAGC
 TTCCAGATGTGCTTGAAGAGTCAAGTTCAGCTGTATGGCCTGGACCCATGATGGGAAGGGAATGTTCTA
 CAACTCATACCCTCAACAGGATGAAAAAGTGATGGCACAGAGACATCTACCAATCTCCACAAAAGCTC
 TACTACCATGTCTTGGGAACCGATCAGTCAGAAGATTTTTGTGTCTGAGTTTCTCTGATGAACCTAAAT
 GGATGGGTGGAGCTGAGTTATCTGATGATGGCCGCTATGTCTTGTATCAATAAGGGAAGGATGTGATCC
 AGTAAACCGACTCTGGTACTGTGACCTACAGCAGGAATCCAGTGGCATCGCGGGAATCCTGAAGTGGGTA
 AAAGTATTGACAACCTTGAAGGGGAATATGACTACGTGACCAATGAGGGGACGGTGTTCACATTCAAGA
 CGAATCGCCAGTCTCCAACTATCGCGTGATCAACATTGACTTCAGGGATCCTGAAGAGTCTAAGTGAA
 AGTACTTGTTCCTGAGCATGAGAAAGATGTCTTAGAATGGATAGCTTGTGTCAGGTCCAACCTTCTGGTC
 TTATGCTACCTCCATGACGTCAAGAACATTCTGCAGCTCCATGACCTGACTACTGGTCTCTCCTTAAGA
 CTTTCCCGCTCGATGTCGGCAGCATTGTAGGTTACAGCGGTGAGAAGAAGGACACTGAAATCTTCTATCA
 GTTTACTTCCTTTTTATCTCCAGGTATCATTTATCACTGTGATCTTACCAAAGAGGAGCTGGAGCCAAGA
 GTTTTCCGAGAGGTGACCGTAAAAGGAATTGATGCTTCTGATTACCAGACAGTCCAGATTTTCTACCCTA
 GCAAGGATGGTACGAAGATTCCAATGTTTATTGTGCATAAAAAAGGCATAAAAAATTGGATGGCTCTCATCC
 AGCTTTCTTATATGGCTATGGCGGCTTCAACATATCCATCACACCCAACTACAGTGTTCAGGCTTATT
 TTTGTGAGACACATGGGTGGTATCCTGGCAGTGGCCAACATCAGAGGAGGTGGCGAATATGGAGAGACGT
 GGCATAAAGGTGGTATCTTGCCAACAACAAAAGTCTTTGATGACTTTCAGTGTGCTGCTGAGTATCT
 GATCAAGGAAGGTTACACATCTCCAAGAGGCTGACTATTAATGGAGGTTCAAATGGAGGCTCTTAGTG
 GCTGCTTGTGCAATCAGAGACCTGACCTTTTGGTTGTGTTATTGCCAAAGTTGGAGTAATGGACATGC
 TGAAGTTTCATAAATATACCATCGGCCATGCTTGGACCACTGATTATGGGTGCTCGGACAGCAAACAACA
 CTTTGAATGGCTTGTCAAATACTCTCCATTGCATAATGTGAAGTTACCAGAAGCAGATGACATCCAGTAC
 CCGTCCATGCTGCTCCTCACTGCTGACCATGATGACCGCGTGGTCCCGCTTCACTCCCTGAAGTTCATTG
 CCACCTTCAGTACATCGTGGGCCGAGCAGGAAGCAAAGCAACCCCTGCTTATCCACGTGGACACCAA
 GGCGGGCCACGGGGCGGGGAAGCCACAGCCAAGTGATAGAGGAAGTCTCAGACATGTTTGCCTTCATC
 GCGCGTGCCTGAACGTGACTGGATTCCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG203596 representing NM_002726
 Red=Cloning site Green=Tags(s)

MLSLQYPDVYRDETAVQDYHGHIKIDPYAWLEDPDSEQTKAFVEAQNKITVPFLEQCPIRGLYKERMTEL
 YDYPKYSCHFKKGKRYFYFYNTGLQNQRVLYVQDSLEGEARVFLDPNILSDDGTVALRGYAFSEEDGEYFA
 YGLSASGSDWVTIKFMKVDGAKELPDVLERVKFSCMAWTHDGKGMFYNSYPQQDGKSDGTETSTNLHQKL
 YYHVLGTDQSEDILCAEFPDEPKWMGGAELSDDGRYVLLSIREGCDPVNRLWYCDLQQEISSGIAGILKVV
 KLIDNFEGEYDYVTNEGTVFTFKTNRQSPNYRVINIDFRDPEESKWKVLVPEHEKDVLEWIACVRSNFLV
 LCYLHDVKNILQLHDLTTGALLKTFLPLDVGSIVGYSGQKKDTEIFYQFTSFLSPGIIYHCDLTKEELEPR
 VFREVTYKVIDASDYQTVQIFYPKDGTKIPMFIHVHKKGIKLDGSHPAFLYGYGGFNISITPNYSVSRLLI
 FVRHMGILAVANIRGGGEYGETWHKGGILANKQNCFFDQCAAAYLKEGYTSPKRLTINGGSSNGLLV
 AACANQRPDLCVIAQVGVMDMLKFHKYTIQGHAWTTDYGCSKQHFVWLKYSPLHNKLVPEADDIQY
 PSMLLLTAHDHRRVVPLHSLKFIATLQYIVGRSRKQSNPLLIHVDTKAGHGAGKPTAKVIEEVSDMFAFI
 ARCLNVDWIP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002726

ORF Size: 2130 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_002726.5](#)

RefSeq Size: 2849 bp

RefSeq ORF: 2133 bp

Locus ID: 5550

UniProt ID: [P48147](#)

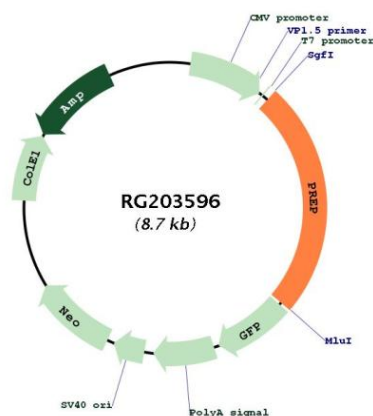
Cytogenetics: 6q21

Domains: Peptidase_S9, Peptidase_S9_N

Protein Families: Druggable Genome, Protease

Gene Summary: The protein encoded by this gene is a cytosolic prolyl endopeptidase that cleaves peptide bonds on the C-terminal side of prolyl residues within peptides that are up to approximately 30 amino acids long. Prolyl endopeptidases have been reported to be involved in the maturation and degradation of peptide hormones and neuropeptides. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203596