

## Product datasheet for **SC118444**

### Prolyl Endopeptidase (PREP) (NM\_002726) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Prolyl Endopeptidase (PREP) (NM_002726) Human Untagged Clone |
| Tag:                      | Tag Free   |
| Symbol:                   | Prolyl Endopeptidase   |
| Synonyms:                 | PE; PEP  |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>                             |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                       |



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Fully Sequenced ORF:

```
>OriGene sequence for NM_002726 edited
GAATTCGGCACGAGGCTGGCCGTGAGCNGGCCGCCGCTGCCCGCGCCGCCCGCAGCT
GCCTGCGCCCCAGCCGCGCTCGCGGCCAGCCGGCTAGCTCAGGTCCGCTCCCGGAGCC
CGCGCCCCCTCCACGCTGCCCCCTGCCTGTCCCCGGCCATGCTGTCCCTTACAGTACCCGA
CGTGTACCGCGACGAGACCGCGTACAGGATTATCATGGTCATAAAATTTGTGACCCTTA
CGCCTGGCTTGAAGACCCGACAGTGAACAGACTAAGGCCTTTGTGGAGGCCAGAATAA
GATTACTGTGCCATTTCTTGAGCAGTGTCCCATCAGAGGTTTATACAAAGAGAGAATGAC
TGAACTATATGATTATCCCAAGTATAGTTGCCACTTCAAGAAAGGAAAACGGTATTTTTA
TTTTTACAATACAGTTTTGCAGAACCAGCGAGTATTATATGTACAGGATTCCTTAGAGGG
TGAGGCCAGAGTGTTCTGGACCCCAACATACTGTCTGACGATGGCACAGTGGCACTCCG
AGGTTACGCGTTCAGCGAAGATGGTGAATATTTTGCCTATGGTCTGAGTGCCAGTGGCTC
AGACTGGGTGACAATCAAGTTCATGAAAGTTGATGGTGCCAAAGAGCTTCCAGATGTGCT
TGAAAGAGTCAAGTTCAGCTGTATGGCCTGGACCCATGATGGGAAGGGAATGTTCTACAA
CTCATACCCTCAACAGGATGGAAAAAGTATGGCACAGAGACATCTACCAATCTCCACCA
AAAGCTCTACTACCATGTCTTGGGAACCGATCAGTCAGAAGATATTTTGTGTGCTGAGTT
TCCTGATGAACCTAAATGGATGGGTGGAGCTGAGTTATCTGATGATGGCCGCTATGTCTT
GTTATCAATAAGGGAAGGATGTGATCCAGTAAACCGACTCTGGTACTGTGACCTACAGCA
GGAATCCAGTGGCATCGCGGGAATCCTGAAGTGGTAAAAGTATTGACAACCTTTGAAGG
GGAATATGACTACGTGACCAATGAGGGGACGGTGTTCACATTCAGAGCAATCGCCAGTC
TCCCAACTATCGCGTGATCAACATTGACTTCAGGGATCCTGAAGAGTCTAAGTGGAAAGT
ACTTGTTCCTGAGCATGAGAAAGATGTCTTAGAATGGATAGCTTGTGTGAGTCCAACTT
CTTGGTCTTATGCTACCTCCATGACGTCAAGAACATTCTGCAGCTCCATGACCTGACTAC
TGGTGTCTCCTTAAGACCTTTCCGCTCGATGTGCGCAGCATTGTAGGGTACAGCGGTC
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TCACTGTGATCTTACAAAGAGGAGCTGGAGCCAAGAGTTTTCCGAGAGGTGACCGTAAA
AGGAATTGATGCTTCTGATTACCAGACAGTCCAGATTTTCTACCCTAGCAAGGATGGTAC
GAAGATCCAATGTTTATTGTGCATAAAAAAGGCATAAAATTTGGATGGCTCTCATCCAGC
TTTCTTATATGGCTATGGCGGCTTCAACATATCCATCACACCCAACTACAGTGTTCAG
GCTTATTTTTGTGAGACACATGGGTGGTATCCTGGCAGTGGCCAACATCAGAGGAGTGG
CGAATATGGAGAGACGTGCATAAAGGTGGTATCTTGGCCAACAACAAAAGTCTTTGA
TGACTTTCAGTGTGCTGTGAGTATCTGATCAAGGAAGGTTACACATCTCCCAAGAGGCT
GACTATTAATGGAGGTTCAAATGGAGGCCTTCTAGTGGCTGCTTGTGCAAATCAGAGACC
TGACCTCTTTGGTTGTGTTATTGCCAAGTTGGAGTAATGGACATGCTGAAGTTTCATAA
ATATACCATCGGCCATGCTTGGACCACTGATTATGGGTGCTCGGACAGCAAAACAACCTT
TGAATGGCTTGTCAAATACTCTCCATTGCATAATGTGAAGTTACCAGAAGCAGATGACAT
CCAGTACCCGTCATGCTGCTCCTCACTGCTGACCATGATGACCGCGTGGTCCCCTTCA
CTCCCTGAAGTTCATTGCCACCTTCAGTACATCGTGGGCCGACAGGAAGCAAAGCAA
CCCCCTGCTTATCCACGTGGACACCAAGCGGGCCACGGGGCGGGGAAGCCACAGCCAA
AGTGATAGAGGAAGTCTCAGACATGTTTTGCGTTTCATCGCGCGGTGCCTGAACGTCGACTG
GATTCATAAAACAGTTTTTCGTGCTTCTCCTGACAGCGACAGAAAACCTCAAGGGCTTTC
CCACGTTGACACCAAGAAACCACTGGGCATAATGCTTCCCACGGGAACATTATTCCTGC
ACTCACAGGCTACAGTTGAACAGAACTGCCGTGGGAATTTTATCTTTTTTAGGCTTCTCC
TTTTTAGCAAGGCCTTGGTGTCTTTTTCCACCCTGTCTAGGCACATGTGGTTTTTTGG
TGTTTTTTTTAAGGGCATGTTGGGATAAATAGCTAAATGGCAACAACACATTGTGAATA
TTAGATTGCTGAATTAAGGATCATAGTCGGGCATACTTATCTATATCCATAACCTCTATA
TCTTTAAATAAATGTGAGAACTGTTCTCATGGAGAAGACTTCTTTGCAACAATAAATAAT
GTTATTTAAGAAATGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002726 unedited  
 GCACAATTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCTGGCCGTGAGC  
 CGGCCGCCGCTGCCGCCGGCCGCCCGCAGCTGCCTGCGCCCCAGCCGCGCCTCGCGGC  
 CAGCCCGGCTAGCTCAGTCCGCTCCCGGAGCCCGCGCCCTCCACGCTGCCCTTGCT  
 GTCCCCGGCATGCTGTCCCTTACAGTACCCCGACGTGTACCGCGACGAGACCCCGTACA  
 GGATTATCATGGTCATAAAATTTGTGACCCTTACGCCTGGCTTGAAGACCCCGACAGTGA  
 ACAGACTAAGGCCTTTGTGGAGGCCAGAATAAGATTACTGTGCCATTTCTTGAGCAGTG  
 TCCCATCAGAGGTTTATACAAAGAGAGAATGACTGAACTATATGATTATCCCAAGTATAG  
 TTGCCACTTCAAGAAAGGAAAACGGTATTTTTATTTTACAATACAGTTTGCAGAACCA  
 GCGAGTATTATATGTACAGGATTCCTTAGAGGGTGAGGCCAGAGTGTTCTCGACCCCAA  
 CATACTGTCTGACGATGGCACAGTGGCACTCCGAGGTTACGCGTTCAGCGAAGATGGTGA  
 ATATTTTGCTATGGTCTGAGTGCCAGTGGCTCAGACTGGGTGACAATCAAGTTCATGAA  
 AGTTGATGGTGCCAAAGAGCTTCCAGATGTGCTTCAAAGAGTCAAGTTCAGCTGTATGGC  
 CTGTACCCATGATGGGAANGAATGTTCTACAACCTCATACCTCCACAGGATGGGAAAAG  
 TGATGGCACAGAGACATCTACCAATCTCCACAAAAGCTCTACTACCATGTCTTGGGGAC  
 CGATCAGTCAGAAGATATTTGTGTGCTGAGNTTCTGATGAACCCTAATGGATGGTGA  
 GCTNGAGTATCTGATGATGGCCGCTATGTTCTGTTATCATTAAAGAAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002726 unedited  
 GGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAATTCCTTAAATAACATTTAT  
 TATTGTTGCAAAGAAGTCTTCTCCATGAGAACAGTTCTCACATTTATTTAAAGATATAGA  
 GGTATGGATATAGATAAGTATGCCCGACTATGATCCTTAATTCAGCAATCTAATATTCA  
 CAATGTGTTTGTGCCATTTAGCTATTTATCCCAACATGCCCTTAAAAAAAACACCAAAA  
 AACCATGTGCCTAGACAGGGTGGAAAAAGAAACACCAAGGCCTTGCTAAAAAGGAGAA  
 GCCTAAAAAGATAAAATTTCCACGGCAGTTCTGTTCAACTGTAGCCTGTGAGTGCAGGA  
 ATAATGTTCCCGTGGGGAAGCATTATGCCCAGTGGTTTCTTGGTGAACGTGGGAAAGC  
 CCTTGAGGTTTTCTGTGCTGTGACGAGGAAGCAGCAAACTGTTTATGGAATCCAGTCG  
 ACGTTCAGGCACCGCGCATGAACGCAACATGTCTGAGACTTCTCTATCACTTTGGCT  
 GTGGGCTTCCCCGCCCGTGGCCCGCTTGGTGTCCACGTGGATAAGCAGGGGGTTGCTT  
 TGCTTCTGTGCGGCCACGATGTACTGAAGGGTGGCAATGAACTTCAGGGAGTGAAGC  
 GGGACCACGCGGTATCATGGTCAGCAGTGAGGAGCAGCATGGACGGGTACTGGATGTCA  
 TCTGCTTCTGGTAACTTCACATATGCAATGGAGAGTATTTGACAAGCCATTCAAAGTGT  
 GTTTGCTGTCCGAGCACCATAATCAGTGGTCCAGCATGGCCGATGGTATATTATGAACT  
 CAGCATGTCCATACNNTCACTGGGCATTACACACCAAGNAGTCAGGTCTCTGATTGCACA  
 GCAGCACTAAGAGCCCTCATTGAACCTCATATAGTCAGCTTTGGGAGAGGGAACCTNCTG  
 ATAGACTCANAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002726

**Insert Size:**

2700 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_002726.3](#), [NP\\_002717.3](#)

**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]