

## Product datasheet for **SC128264**

### **NPEPPS (NM\_006310) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NPEPPS (NM_006310) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPEPPS
Synonyms:	AAP-S; MP100; PSA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_006310 edited
ATGTGGCTGGCAGCTGCCGCCCCCTCCCTCGCTCGCCGCCTGCTCTTCTCGGCCCTCCG
CCTCTCCCTCCTCCTTCTCGTCTTCAGCCGCTCCTCTCGCCGCCGCCTCCACAGCCTG
GGCCTCGCCGCGATGCCGGAGAAGAGGCCCTTCGAGCGGCTGCCTGCCGATGTCTCCCC
ATCAACTACAGCCTTTGCCTCAAGCCGACTTGTGGACTTACCTTCGAGGGCAAGCTG
GAGGCCGCCGCCAGGTGAGGCAGGCGACTAATCAGATTGTGATGAATTGTGCTGATATT
GATATTATTACAGCTTCATATGCACCAGAAGGAGATGAAGAAATACATGCTACAGGATTT
AACTATCAGAATGAAGATGAAAAAGTCACCTTGTCTTTCCCTAGTACTCTGCAAACAGGT
ACGGGAACCTTAAAGATAGATTTTGTGGAGAGCTGAATGACAAAATGAAAGTTTCTAT
AGAAGTAAATATACTACCCCTTCTGGAGAGGTGCGCTATGCTGTGTAACACAGTTTGAG
GCTACTGATGCCCGAAGGGCTTTTCTTGTGGGATGAGCCTGCTATCAAAGCAACTTTT
GATATCTCATTGGTTGTTCTAAAGACAGAGTAGCTTTATCAAACATGAATGTAATTGAC
CGGAAACCATACCCTGATGATGAAAATTTAGTGAAGTGAAGTTTGCCCGCACACCTGTT
ATGTCTACATATCTGGTGCATTTGTTGTGGGTGAATATGACTTTGTAGAAAACAAGTCA
AAAGATGGTGTGTGTGTCGTGTTTACACTCCTGTTGGCAAAGCAGAGCAAGGAAAATTT
GGTTAGAGGTTGCTGCTAAAACCTTGCCTTTTTATAAGGACTACTTCAATGTTCCCTAT
CCTCTACCTAAAATTGATCTCATTGCTATTGCAGACTTTGCAGCTGGTGCATGGAGAAC
TGGGGCCTTGTTACTTATAGGGAGACTGCATTGCTTATTGATCCAAAAATTCCTGTTCT
TCATCCCAGTGGGTTGCTCTGGTTGTGGGACATGAACTCGCCCATCAATGGTTTGA
AATCTTGTACTATGGAATGGTGGACTCATCTTGGTTAAATGAAGGTTTTGCATCCTGG
ATTGAATATCTGTGTGAGACCCTGCTCCCAGAGTATGATATTTGGACTCAGTTTGT
TCTGCTGATTACACCCGTGCCAGGAGCTTACGCCTTAGATAACAGCCATCCTATTGAA
GTCAGTGTGGCCATCCATCTGAGTTGATGAGATATTTGATGCTATATCATATAGCAAA
GGTGCATCTGTATCCGAATGCTGCATGACTACATTGGGGATAAGGACTTTAAGAAAGGA
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TTGTCCAAAAGAAGTTCTGTGCTGGTGGGTGATGTTGGTGAAGATTGCCCCAGTGG
ATGGTCCCTATCACAATCTACTAGTGAAGACCCCAACCAGGCCAACTAAAAATTCTA
ATGGACAAGCCAGAGATGAATGTGGTTTTGAAAAATGTCAAACCAGACCAATGGGTGAAG
TTAAACTTAGGAACAGTTGGGTTTTATCGGACCCAGTACAGCTCTGCCATGCTGGAAAGT
TTATTACCAGGCATTCGTGACCTTTCTCTGCCCCCTGTGGATCGACTTGGATTACAGAAT
GACCTCTTCTCCTTGGCTCGAGCTGGAATCATTAGCACTGTAGAGGTTCTAAAAGTCATG
GAGGCTTTTGTGAATGAGCCCAATTATACTGTATGGAGCGACCTGAGCTGTAACCTGGGG
ATTCTCTCAACTCTTTGTTCCACACAGACTTCTATGAGGAAATCCAGGAGTTTGTGAAA
GATGTCTTTTACCTATAGGGGAGAGACTGGGCTGGGACCCCAACCTGGAGAAGGTCAT
CTCGATGCACTCCTGAGGGGCTTGGTTCTGGGAAAAGTGGGAAAGCAGGACATAAGGCA
ACGTTAGAAGAAGCCCGTCGTCGGTTTAAAGGACCAGTGGAAAGGAAAACAGATTCTCC
GCTGATCTGAGGAGTCTGTCTATCTGACTGTTTTGAAGCATGGTGTGCACTACTTTA
GATATTATGTTAAAACCTCATAAACAAGCAGATATGCAAGAAGAGAAAAACCGAATCGAA
AGAGTCTTGGCGCTACTTTTTGCCTGACCTGATTCAAAAAGTCTCACGTTTGCACCTT
TCAGAAGAGGTACGTCCACAGGACACTGTATCGGTAATTGGTGGAGTAGCTGGAGGCAGC
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CGATACCAGGGAGGATTCTTAATATCCAGACTAATAAAGCTATCAGTTGAGGGATTTGCA
GTTGATAAAAATGGCTGGAGAGGTTAAGGCTTTCTTCGAGAGTCAACCAGCTCCTTCAGCT
GAGCGTACCATCCAGCAGTGTGTGAAAATATTCTGCTGAATGCTGCCTGGCTAAAGCGA
GATGCTGAGAGCATCCACAGTACCTCCTTCAGCGGAAGGCCTCACCACCACAGTGTGA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006310 unedited  
 GGGGAGGGGGGAAANNNTNNNTTTTNNANNNGTCTATCCCCGCCCGTTGNCGCAA  
 AGGGCGGTAGGCGTGTACGGTGGGNAGTCTATATAAGCAGAGCTCATTTAGGTGACACTA  
 TAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTCGGCACGAGGCGGCTGGG  
 TCTCTCCCCGCCCCAGGCTCCCCGGTCGCTCTCCTCCGGCGGTGCGCCGCGCTCGG  
 TGGATGTGGTGGCAGCTGCCGCCCTCCCTCGCTCGCCGCTGCTCTTCTCGGCCCT  
 CCGCCTCCTCCCCTCCTTCTCGTCTTCAGCCGCTCCTCTCGCCGCCGCTCCACAGC  
 CTGGGCTCGCCGATGCCGGAAGAGGCCCTTCGAGCGGCTGCCTGCCGATGTCTCC  
 CCCATCAACTACAGCCTTTGCCTCAAGCCGACTTGCTGGACTTACCTTCGAGGGCAAG  
 CTGGAGGCCGCCCCAGGTGAGGCAGGCGACTAATCAGATTGTGATGAATTGTGCTGAT  
 ATTGATATTATTACAGCTTCATATGCACCAGAAGGAGATGAAGAAATACATGCTACAGGA  
 TTTAACTATCAGAATGAAGATGAAAAAGTCACCTTGTCTTTCCCTAGTACTCTGCAAACA  
 GGTACGGGAACCTTAAAGATAGATTTTGTGGAGAGCTGAATGACAAAATGAAAGTTTC  
 TATAGAAGTAAATATACTACCCCTTCTGGAGAGGTGCGCTATGCTGCTGAACACAGTTT  
 GAGGCTACTGATGCCGAAGGCCTTTCCTTGTGGGATGAGCCTGCTATCAAAGCAACTN  
 TTGATATCTCATGNNNTGTCCTAANGACAGAGTAGCTTTATCAAACATGAATGACTTG  
 ACCCGAACCATACCTGATGATGAAANNATTATGGAAGTGAAGTTTGCCCGCC

**3' Read Nucleotide Sequence:**

>Forward primer walk for NM\_006310 unedited  
 TTGCAAGAGAGAAAACCGATCGAAAGATCCTTGGCGCTACTCTTTGCTGACCTGATTC  
 AAAAAGTCCTCACGTTTGCATTTTCAAGAGGTACGTCCACAGGACACTGTATCGGTAA  
 TTGGTGGAGTAGCTGGAGGCAGCAAGCATGGTAGGAAAGCTGCTTGGAAATTCATAAAGG  
 ACAACTGGGAAGAACTTTATAACCGATACCAGGGAGGATTCTTAATATCCAGACTAATAA  
 AGCTATCAGTTGAGGGATTTGCAGTTGATAAAATGGCTGGAGAGGTTAAGGCTTCTTCG  
 AGAGTCACCCAGCTCCTTCAGCTGAGCGTACCATCCAGCAGTGTGTGAAAATATTCTGC  
 TGAATGCTGCCTGGCTAAAGCGAGATGCTGAGAGCATCCACCAGTACCTCCTTCAGCGGA  
 AGGCCTCACCACCACAGTGTGAATCCTGAGGTGCCGCATTGGCGGTTCTGCTGCTTCG  
 CTGCAGGGATAAGGTGGAGCTACCGAACAGCTGATTCATATGCCAAGAATTTGGAGTCTT  
 CTTTCAAACCAGTGGGGTTGGACAATGAATGTAGTAACTGGTTCCTGCTCACACTCCA  
 GAATTAATTTCTATTGAAAAGGAAAATCAGCAATTCAGCAAANAATAAATAAANAATAA  
 AAATGTAATATGATAGTAATAAAATAGAGCATAACGAACTGTGAACTTTCTGAAGCC  
 TTGTCAAGTGGTTAAAAGTATTTAACTCTACTGTTAATGACAGATGTTCTGTTTTATA  
 CCTACAAAAGGAACTAGAGGCTTCTTGGTGAAGAGCATTTTTGTGAAGTGGGTTCTGCA  
 NGNAGCCTATNAAGCCAGGGT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006310

**Insert Size:**

4200 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\\_006310.2](#), [NP\\_006301.2](#)

**RefSeq Size:** 4177 bp

**RefSeq ORF:** 2628 bp

**Locus ID:** 9520

**UniProt ID:** [P55786](#)

**Cytogenetics:** 17q21.32

**Domains:** Peptidase\_M1

**Protein Families:** Druggable Genome, Protease

**Gene Summary:** This gene encodes the puromycin-sensitive aminopeptidase, a zinc metallopeptidase which hydrolyzes amino acids from the N-terminus of its substrate. The protein has been localized to both the cytoplasm and to cellular membranes. This enzyme degrades enkaphalins in the brain, and studies in mouse suggest that it is involved in proteolytic events regulating the cell cycle. [provided by RefSeq, Jul 2008]