

## Product datasheet for **SC307057**

### Leucyl cystinyl aminopeptidase (LNPEP) (NM\_175920) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Leucyl cystinyl aminopeptidase (LNPEP) (NM\_175920) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** LNPEP  
**Synonyms:** CAP; IRAP; P-LAP; PLAP  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_175920, the custom clone sequence may differ by one or more nucleotides

```

ATGATTGAAAACAGCATGTTTGAGGAAGAACCAGATGTGGTGGATTTAGCCAAAGAGCCT
TGTTTACATCCTCTAGAGCCTGATGAGGTGGAATATGAGCCCCGGGGTCCCGACTGCTG
GTGCGGGGTCTTGGTGAGCATGAGATGGAGGAGGATGAAGAGGATTATGAGTCATCAGCA
AAGCTGCTGGGCATGTCCTTCATGAATAGAAGCTCAGGCCTTCGGAACAGTGCAACTGGT
TACAGGCAGAGCCAGATGGGGCTTGTTCAGTACCCTCTGCAAGGACCATGGTGGTCTGT
GCTTTTGTTCATCGTGGTGTCTGTTTCTGTAATCATGGTGTACTTACTGCCCAGATGT
ACCTTTACCAAAGAAGGCTGCCATAAAAAAACAGTCAATTGGACTAATTCAGCCATTT
GCAACAAATGGGAAATTGTTTCCATGGGCACAGATCAGGCTTCCCACTGCCGTTGTGCCA
CTACGCTATGAACCTCAGCCTACACCCGAACCTAACCTCGATGACATTCAGGGGTTCTGTG
ACAATTTTCAGTTCAGGCTCTTCAGGTCACATGGAATATCATTCTTCATAGCACAGGTCAT
AATATTTCAAGAGTGACCTTTATGTGACAGTTCAGGCAAGAAAAACAAGCTGAGATC
CTGGAATATGCATATCATGGACAGATCGCCATTGTTGCCCCGAAGCCCTTCTAGCAGGG
CACAATTATACGTTGAAGATAGAGTACTCGGCAATATATCTAGTTCTTATTATGGGTTT
TATGGCTTCTCTACACAGATGAAAGTAATGAGAAAAAGTACTTTCAGCAACTCAGTTT
GAACCCCTGGCAGCAAGATCTGCTTTTCTTGTGTTGATGAACCAGCATTAAAGCCACT
TTTATCATCAAGATCATAAGGGATGAGCAATACACCGCTTTATCAAATATGCCTAAGAAG
TCATCAGTCGTTCTAGATGATGGACTTGTTCAGGATGAGTTTTCTGAGAGTGTGAAGATG
AGCACTTACTTGGTTGCTTTCATTGTGGGAGAGATGAAGAACCTGAGTCAGGACGTAAT
GGAACCCCTGGTTTCTATATATGCTGTACCAGAAAAGATTGGTCAAGTTCATTATGCCTTG
GAAACAACTGTGAAGCTTCTTGAGTTTTTCAAACACTTTTGAATTCAGTACCCACTT
AAGAAATGGATTTGGTGGCTATTCCTGACTTTGAAGCAGGAGCAATGAAAAATGGGGT
TTGCTCACCTCCGAGAGGAGACACTTCTGTATGACAGTAACACTTCTTCAATGGCGGAT
AGAAAGCTGGTGACTAAAATCATTGCTCATGAGCTGGCCACCAGTGGTTTGGCAATCTG
GTAACAATGAAGTGGTGAATGACCTATGGCTAAATGAAGGTTTTGCCACTTTCATGGAG
TATTTCTCTTTGAAAAAATATTCAAAGAGCTTTCTAGTTATGAAGATTTCTTAGATGCT
CGATTTAAAACCATGAAGAAAGATTCCTTAAATTCATCTCATCCAATATCATCATCTGTT
CAGTCTTCAGAACAAATGAAGAAATGTTTGATTCTTTTCTATTTAAAGGGATCTTCT
CTCTTGTGATGTTGAAAACTTACCTTAGTGAAGATGTGTTTCAACATGCTGTTGTCCTT
TACCTGCATAATCACAGCTATGCATCTATTCAAAGTGATGCTGTGGGATGTTTTAAT

```



[View online >](#)

GAGGTCACAAACCAAACTAGATGTAAGAGAATGATGAAAACCTGGACCCTGCAGAAA  
 GGATTTCCTTTAGTGACTGTTCAAAAGAAAGGAAAGGAACTTTTTATACAACAAGAGAGA  
 TTCTTTTTAAATATGAAGCCTGAAATTCAGCCTTCAGATACAAGCTACCTGTGGCATATT  
 CCACTATCCTATGTCAGTGAAGGAAGAAATTTCAAAATATCAATCGGTATCATTACTG  
 GATAAGAAATCAGGTGTCATCAATCTTACAGAAGAAGTGTGTGGGTCAAAGTGAATATA  
 AACATGAATGGTTATTATATTGTACACTATGCAGATGATGATTGGGAAGCACTAATCCAT  
 CAGTTGAAAATAAATCCTTATGTTCTGAGTGACAAAGACCGAGCCAACCTTATCAACAAC  
 ATCTTTGAACTTGCAAGGCTAGGCAAGGTACCTCTCAAGAGGGCCTTTGATTTGATTAAT  
 TATCTTGAAATGAGAACCATACTGCACCCATCACCGAAGCCCTGTTTCAGACAGACCTC  
 ATCTATAACCTCCTTGA AAAACTGGGATACATGGATCTGGCCTCAAGACTGGTGACTAGG  
 GTATTTAAATTACTTCAAAACCAAATTCACAACA AA ACTTGGACTGATGAGGGCACTCCA  
 TCTATGCGAGAGCTTCGGTCAGCCCTGCTAGAGTTTGCTTGACCCACAACCTGGGGAAC  
 TGCTCTACTACTGCCATGAAACTGTTTGATGACTGGATGGCATCCAATGGA ACTCAAAGC  
 CTACCTACTGATGTCATGACA ACTGTGTTCAAAGTTGGAGCAAAA ACTGACAAAGGCTGG  
 TCATTCCTTTTGGCAAATACATTTCTATAGGCTCTGAAGCAGAGAAGAACA AAAACTA  
 GAAGCACTTGCCAGCTCAGAGGATGTGCGGAAGCTTTACTGGTTAATGAAAAGTAGCCTG  
 AATGGAGATAACTCCGAACACAGAAGCTGTCTTTTATCATTAGAACAGTGGGTCGACAT  
 TTTCTGGACACTTACTGGCATGGGATTTGTCAAAGAGAACTGGAATAAGCTTGTACAG  
 AAGTTCCTCTGGGGTCTATACCATACAAAAATATTGTTGCTGGATCAACTTACCTGTTT  
 TCAACAAGACACATTTATCTGAGGTTCCAGGCATTCTTTGAAAATCAGTCAGAGGCAACC  
 TTCCGGCTTCGTTGTGTCCAGGAGGCTTGGAAAGTCATTCAAGTTGAATATCCAGTGGATG  
 GAGAAGAACCTCAAAGTCTCACATGGTGGCTGTAG

- Restriction Sites:** Please inquire
- ACCN:** NM\_175920
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_175920.3](#), [NP\\_787116.2](#)
- RefSeq Size:** 4262 bp
- RefSeq ORF:** 3036 bp
- Locus ID:** 4012

<b>UniProt ID:</b>	<a href="#">Q9UIQ6</a>
<b>Cytogenetics:</b>	5q15
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Renin-angiotensin system
<b>Gene Summary:</b>	<p>This gene encodes a zinc-dependent aminopeptidase that cleaves vasopressin, oxytocin, lys-bradykinin, met-enkephalin, dynorphin A and other peptide hormones. The protein can be secreted in maternal serum, reside in intracellular vesicles with the insulin-responsive glucose transporter GLUT4, or form a type II integral membrane glycoprotein. The protein catalyzes the final step in the conversion of angiotensinogen to angiotensin IV (AT4) and is also a receptor for AT4. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) contains an alternate 5' exon, which results in a distinct 5' UTR and use of a downstream start codon, compared to variant 1. The resulting isoform (2) has a shorter N-terminus when compared to isoform 1.</p>