

## Product datasheet for RC216948

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Leucyl cystinyl aminopeptidase (LNPEP) (NM_175920) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LNPEP
Synonyms:	CAP; IRAP; P-LAP; PLAP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC216948 representing NM_175920 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATTGAAAACAGCATGTTTGAGGAAGAACCAGATGTGGTGGATTTAGCCAAAGAGCCTTGTTTACATC  
CTCTAGAGCCTGATGAGGTGGAATATGAGCCCCGGGTTCCCGACTGCTGGTGC GG GTCTTGGTGAGCA  
TGAGATGGAGGAGGATGAAGAGGATTATGAGTCATCAGCAAAGCTGCTGGGCATGCTCTCATGAATAGA  
AGCTCAGGCCTTCGGAACAGTGCAACTGGTTACAGGCAGAGCCCAGATGGGGCTTGTTACAGTACCCTCTG  
CAAGGACCATGGTGGTCTGTGCTTTTGTATCGTGGTTGCTGTTTCTGTAATCATGGTGATTTACTTACT  
GCCAGATGTACCTTTACCAAAGAAGGCTGCCATAAAAAAACAGTCAATTGGACTAATTCAGCCATTT  
GCAACAAATGGGAAATGTTTCCATGGGCACAGATCAGGCTTCCCAGTCCGTTGTGCCACTACGCTATG  
AACTCAGCCTACACCCGAACCTAACCTCGATGACATTCAGGGGTCTGTGACAATTCAGTTCAGGCTCT  
TCAGGTCACATGGAATATCATTCTCATAGCACAGGTATAATATTTCAAGAGTGACCTTATGTCAGCA  
GTTTCAAGCCAAGAAAAACAAGCTGAGATCCTGGAATATGCATATCATGGACAGATCGCCATTGTGCC  
CGAAGCCCTTACAGAGGGCACAATTATACGTTGAAGATGAGTACTCGGCAAAATATCTAGTCTTTA  
TTATGGGTTTTATGGCTTCTCTACACAGATGAAAGTAATGAGAAAAAGTACTTTGCAGCAACTCAGTTT  
GAACCCCTGGCAGCAAGATCTGCTTTTCTGTTTTGATGAACAGCATTAAAGCCACTTTTATCATCA  
AGATCATAAGGGATGAGCAATACACCGCTTTATCAAATATGCCTAAGAAGTCATCAGTCGTTCTAGATGA  
TGGACTTGTTCAGGATGAGTTTTCTGAGAGTGTGAAGATGAGCACTTACTTGGTTGCTTTTATTGTGGGA  
GAGATGAAGAACCTGAGTCAGGACGTAATGGAACCTGGTTTCTATATATGCTGTACCAGAAAAGATTG  
GTCAAGTTCATTATGCCTTGGAAACAAGTGAAGCTTCTGAGTTTTTCAAACACTTTTGAATTC  
GTACCCACTTAAGAAATGGATTTGGTGGCTATTCCTGACTTTGAAGCAGGAGCAATGAAAATTTGGGT  
TTGCTCACCTCCGAGAGGAGACTTCTGTATGACAGTAACACTTCTTCAATGGCGGATAGAAAGCTGG  
TACTAAAATCATTGCTCATGAGCTGGCCACCAGTGGTTTGGCAATCTGGTAACAAATGAAGTGGTGAA  
TGACCTATGGCTAAATGAAGTTTTGCCACTTTCATGGAGTATTTCTCTTTGAAAAAATATTCAAAGAG  
CTTTCTAGTTATGAAGATTTCTTAGATGCTCGATTTAAACCATGAAGAAAGATTCCTTAAATTCATCTC



[View online »](#)

ATCCAATATCATCATCTGTTTCAGTCTTCAGAACAATTGAAGAAATGTTTGATTCTCTTTCCTATTTTAA  
 GGGATCTTCTCTCTGTTGATGTTGAAAACCTACCTTAGTGAAGATGTGTTTCAACATGCTGTTGCCTT  
 TACCTGCATAATCACAGCTATGCATCTATTTCAAAGTGATGATCTGTGGGATAGTTTTAATGAGGTCACAA  
 ACCAAACACTAGATGTAAGAGAATGATGAAAACCTGGACCCTGCAGAAAGGATTTCTTTAGTGACTGT  
 TCAAAAAGAAAGGAAAGGAACTTTTTATACAACAAGAGAGATTCTTTTAAATATGAAGCCTGAAATTCAG  
 CCTTCAGATACAAGCTACCTGTGGCATATTCACATCCTATGTCACCTGAAGGAAGAAATATTCAAAT  
 ATCAATCGGTATCATTACTGGATAAGAAATCAGGTGTCATCAATCTACAGAAGAAGTGTGTTGGTCAA  
 AGTGAATAAAAACATGAATGGTTATTATATTGTACACTATGCAGATGATGATTGGGAAGCACTAATCCAT  
 CAGTTGAAAATAAATCCTTATGTTCTGAGTGACAAAGACCGACCAACCTTATCAACAACATCTTTGAAC  
 TTGCAGGCCTAGGCAAGGTACCTCTCAAGAGGGCCTTTGATTTGATTAATTATCTTGAAAATGAGAACCA  
 TACTGCACCCATCACGAAGCCCTGTTTCAGACAGACCTCATCTATAACCTCCTTGAAAACCTGGGATAC  
 ATGGATCTGGCCTCAAGACTGGTACTAGGATTTTAAATTACTTCAAAACCAAATCAACAACAACTT  
 GGACTGATGAGGGCACTCCATCTATGCGAGAGCTTCGGTCAGCCCTGCTAGAGTTTGCTGCACCCACAA  
 CCTGGGAACTGCTCTACTACTGCCATGAACTGTTTGATGACTGGATGGCATCCAATGAACTCAAAGC  
 CTACCTACTGATGTCATGACAACGTGTGTTCAAAGTTGGAGCAAAAACCTGACAAAGGCTGGTCATTCTTT  
 TGGGCAAATACATTTCTATAGGCTCTGAAGCAGAGAAGAACAATACTAGAAGCACTTGCCAGCTCAGA  
 GGATGTGCGGAAGCTTTACTGGTTAATGAAAAGTAGCCTGAATGGAGATAACTTCCGAACACAGAAGCTG  
 TCTTTTATCATTAGAACAGTGGGTGCACATTTTCTGGACACTTACTGGCATGGGATTTTGTCAAAGAGA  
 ACTGGAATAAGCTTGACAGAAGTTCCTCTGGGGTCTATACCATACAAAATATTGTTGCTGGATCAAC  
 TTACCTGTTTTCAACAAGACACATTTATCTGAGGTTCCAGGCATTCTTTGAAAATCAGTCAGAGGCAACC  
 TTCCGGCTTCGTTGTGTCAGGAGGCTTTGGAAGTCATTAGTTGAATATCCAGTGGATGGAGAAGAACC  
 TCAAAGTCTCACATGGTGGCTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAGGTTTAA

**Protein Sequence:**

>RC216948 representing NM\_175920  
 Red=Cloning site Green=Tags(s)

MIENSMFEEEPDVVDLAKPECLHLEPDEVEYEPGRSRLVLRGLGEHEMEEDEEDYESSAKLLGMSFMNR  
 SGLRNSATGYRQSPDGACSVPSARTMVVCAFVIVVAVSVIMVIYLLPRCTFTKEGCHKKNQSIGLIQPF  
 ATNGKLPWAQIRLPTAVVPLRYELSLHPNLTSMTFRGSVTISVQALQVTWNIILHSTGHNISRVTFMSA  
 VSSQEKQAEILEYAYHGQIAIVAPEALLAGHNYTLKIEYSANISSYYGFYGFYSYDESNEKKYFAATQF  
 EPLAARSAFPFCDEPAFKATFIKIIIRDEQYALSNMPKKSSVLLDDGLVQDEFSESVMSTYLVAFIVG  
 EMKNLSQDVNGTLVSIYAVPEKIGQVHYALETTVKLLEFFQNYFEIQYPLKLDLVAIPDFEAGAMENWG  
 LLTFREETLLYDSENTSSMADRKLVTKIIAHELAHQWFGNLVTMKWVNDLWLNDFATFMEYFSLEKIFKE  
 LSSYEDFLDARFKTMKDSLNSHPISSSVQSSEQIEEMFDSL SYFKGSSLLMLKTYLSEDFVQHAVVL  
 YLHNHSYASIQSDDLWDFNEVTNQTL DVKRMKWTWLQKGFPLVTVQKKGKELFIQQRFFLNMPKPEIQ  
 PSDTSYLWHIPLSYVTEGRNYSKYQSVSLLDKKSGVINL TEEVLWVKVINMNGYYIVHYADDDWEALIH  
 QLKINPYVLSKDRANL INNI FELAGLKVPLKRAF DLINYLGNENHTAPITEALFQTDLIYNLLEKLG  
 MDLASRLVTRVFKLLQNQIQQTWTDEGTPSMRELSALLEFACTHNLGNCSTTAMKLFDDWMA SNGTQS  
 LPTDVMTTVFKVGA KTDKGWSFLLGKYISIGSEAEKNKILEALASSEDVRKLYWLMKSSLNNGDNFRQKL  
 SFIIIRTVGRHFPGHLLAWDFVKENWNKL VQKFP LGSYTIQNI VAGSTYLFSTKTHLSEVQAFFENQSEAT  
 FRLRCVQEALV IQLNIQWMEKNL KSLTWWL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

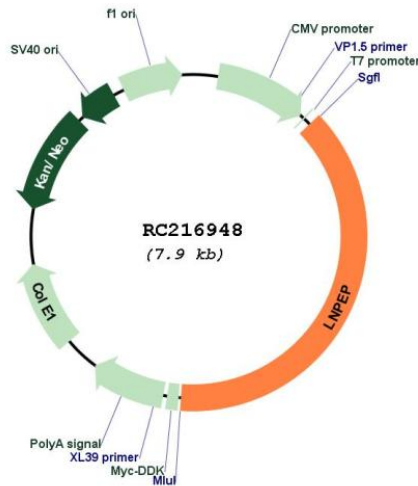
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_175920

ORF Size:

3033 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_175920.4</a>
<b>RefSeq Size:</b>	4262 bp
<b>RefSeq ORF:</b>	3036 bp
<b>Locus ID:</b>	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>MW:</b>	115.5 kDa
<b>Gene Summary:</b>	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]