

#### Product datasheet for RC220692L1

#### OriGene Technologies, Inc.

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### Leucyl cystinyl aminopeptidase (LNPEP) (NM\_005575) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Leucyl cystinyl aminopeptidase (LNPEP) (NM\_005575) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Leucyl cystinyl aminopeptidase

Synonyms: CAP; IRAP; P-LAP; PLAP

Mammalian Cell

Selection:

None

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC220692).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_005575

ORF Size: 3075 bp





# Leucyl cystinyl aminopeptidase (LNPEP) (NM\_005575) Human Tagged Lenti ORF Clone – RC220692L1

**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:** <u>NM 005575.2</u>

RefSeq Size:4470 bpRefSeq ORF:3078 bpLocus ID:4012

UniProt ID: Q9UIQ6

Cytogenetics: 5q15

**Domains:** Peptidase M1

**Protein Families:** Druggable Genome, Protease, Secreted Protein, Transmembrane

**Protein Pathways:** Renin-angiotensin system

**MW:** 117.2 kDa

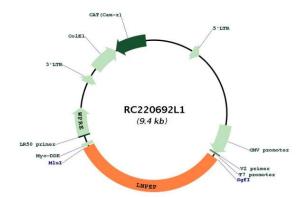
Gene Summary: This gene encodes a zinc-dependent aminopeptidase that cleaves vasopressin, oxytocin, lys-

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

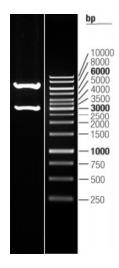
isoforms. [provided by RefSeq, Jul 2008]



## **Product images:**



Circular map for RC220692L1



Double digestion of RC220692L1 using Sgfl and Mlul  $\,$