

## Product datasheet for **RR200189**

### Lnpep (NM\_001113403) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lnpep (NM_001113403) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lnpep
Synonyms:	GP160; IRAP; OTase; P-LAP; Vp165
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR200189 representing NM_001113403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGACCTTTACCAATGATCGACTTCAGCTTCCAAGGAATATGATTGAAAACAGCATGTTTGAAGAAG  
AACCCAGATGTGGTAGATTTAGCCAAAGAACCTTGTTTACATCCTCTGGAACCTGATGAAGTTGAATATGA  
GCCCGGAGGTCGAGGCTTCTGGTGAGAGGTCTTGGTGAGCATGAGATGGATGAGGATGAAGAGGATTAT  
GAGTCATCTGCCAAGCTGCTGGGCATGCTCTTCAACAGAAGCTCAGGCCTTCGGAACAGTGAACAG  
GCTACAGGCAGAGTCCAGATGGGACTTGTTCAGTACCCTCTGCCAGGACCTTAGTAATCTGTGTTTTGT  
CATTGTGGTTGCTGTCTCTGTAATCATGGTGATTATCTACTGCCTAGATGTACCTTTACCAAAGAAGGC  
TGCCACAAAACAAACCAGTCAGCAGAAGCTCATTAGCCGATTGCTACAAAACGGGAAAGTGTTCATGGG  
CACAAATTAGGCTTCCCCTGCCATTATTCCTCAACGCTATGAACCTAGCCTACATCCAAACCTAACCTC  
AATGACATTCAGGGGTTCTGTGACAATTCACCTCAGGCTCTTCAAGATACACGGGACATCATTCTCCAT  
AGCACAGGACATAATATTTCAAGTGTGACATTTATGTCGGCGGTTTCCAGTCAAGAAAAACAAGTTGAAA  
TTCTGGAATATCCATATCATGAACAAATCGCCGTTGTTGCCCTGAAAGCCTTCTAACAGGACACAATTA  
TACCTTGAAGATAGAATATTCAGCAAATATATCTAACTTACTATGGGTTTTATGGCATCACCTACACA  
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CTTGTTTTGATGAACCAGCATTAAAGGCCACATTTATCATCAAGATCACAAAGGATGAGCACCATACTGC  
ATTATCAAATATGCCTAAGAAGTCATCAGTCCCTACAGAAGAAGGACTTATTCAAGATGAGTTTTCTGAA  
AGTGTGAAAATGAGCACATACCTGGTTGCTTTCATTGTAGGGGAGATGAGGAACCTGAGTCAGGATGTAA  
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TGTATGACAATGCCACTTCTTCAGTAGCAGATAGAAAAGTGGTCACTAAAATCATCGCTCAGGAGCTGGC  
ACATCAGTGGTTGGTAATCTGGTTACAATGCAGTGGTGAATGACCTGTGGCTAAACGAAGGCTTTGCC



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ACTTTCATGGAGTATTTCTGTGGAAAAATATTCAAAGAGCTCAACAGTTATGAAGACTTCTTAGATG  
 CTCGATTTAAACCATGAGGAAAGATTCCTTGAATTCGTCTCATCCAATATCATCATCTGTTTCAGTCATC  
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 GAAAACTGGACCCTACAGAAAGGATCCCATTAGTGACCGTCCAGAGAAAAGGGGACTGAGCTTCTTCTA  
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 TTCCAATATCCTATGCTACTGATGGAAGAAACTATTCAGAATATCGATCAGTTTCACTACTGGACAAGAA  
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 TCTGGGCTCTATACCATTCAAAGCATTGTTGCTGGATCTACTCACTTATTTTCAACGAAGACACATTTA  
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200189 representing NM\_001113403  
 Red=Cloning site Green=Tags(s)

METFTNDRLQLPRNMIENSMFEEEDPVVDLAKEPCLHPLEPDEVEYEPGRSRLVRLGHEHMEDEEDY  
 ESSAKLLGMSFMNRSSGLRNSATGYRQSPDGTCSVPSARTLVICVFVIVVAVSVIMVIYLLPRCTFKEG  
 CHKTNQSAELIQPIATNGKVFPWAQIRLPTAIIIPQRYELSLHPNLTSMFRGVSITISLQALQDTRDIILH  
 STGHNISSVTFMSAVSSQEKQVEILEYPYHEQIIVVAPESLLTGHNYTLKIEYSANISNSYYGFYGITYT  
 DKSNEKNFAATQFEPLAARSAFPCFDEPAFKATFIKIITRDEHHTALSNMPKSSVPTTEGLIQDEFSE  
 SVKMSTYLVAFIGEMRNLSDVNGTLVSYYAVPEKIDQVYHALDTTVKLLEFYQNYFEIQYPLKKLDLV  
 AIPDFEAGAMENWGLLTFREETLLYDNATSSVADRKLVTKIIAHELAHQWFGNLVTMQWVNDLWLNAGFA  
 TFMEYFSVEKIFKELNSYEDFLDARFKTMRKDSLNSHPISSSVQSSEQIEEMFDSL SYFKGASLLMLK  
 SYLSEDFQHAIIILYLNHSYAAIQSDDLWDSFNEVTGKTLDVKKMMKTWTLQKGFPLVTVQRKGTLELL  
 QQERFFPSMQPEIQSDTSHLWHIPISYVTDGRNYSEYRSVSLLDKKSVDVINL TEQVQWVKVNTNMTGY  
 IVHYAHDGWAALINQLKRNYPYVLSKDNRANLNNIFELAGLGKVPQMFDLIDYLRNETHAPITEALF  
 QTDLIYNLLEKLGHMDLSSRLVTRVHKLQIQQIQQQTWTDEGTPSMRELSALLEFACASHLENCTTMT  
 KLFDGWMASNGTQSLPTDVMTTVFKVGARTEKGLWFLFSMYSSMGSEAEKDKILEALASSADAHKLYWLM  
 KSSLDGDIIRTQKLSLIIRTVGRQFPGHLLAWDFVKENWNKLVHKFHLGSIYTIQSIIVAGSTHLFSTKTHL  
 SEVQEFENQSEATLQLRCVQEAFAFEVIELNIQWMAARNLKTLLWL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2203\\_e12.zip](https://cdn.origene.com/chromatograms/ja2203_e12.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NM\_001113403

**ORF Size:** 3075 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:** [NM\\_001113403.2](#)

**RefSeq Size:** 3191 bp

**RefSeq ORF:** 3078 bp

**Locus ID:** 171105

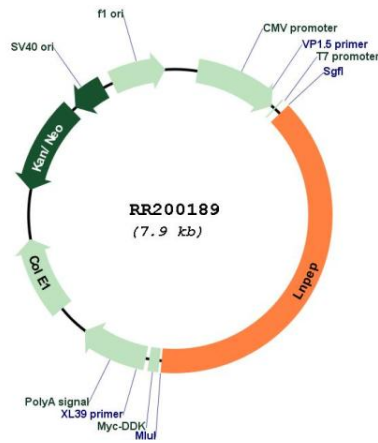
**UniProt ID:** [P97629](#)

**Cytogenetics:** 1q12

**MW:** 117.7 kDa

**Gene Summary:** a zinc-dependent aminopeptidase that interacts with acyl-coenzyme A (CoA) dehydrogenases and plays a role in retention of GLUT4-containing vesicles to an intracellular compartment [RGD, Feb 2006]

**Product images:**



Circular map for RR200189