

## Product datasheet for **RR200188**

### Lnpep (NM\_133574) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lnpep (NM_133574) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lnpep
Synonyms:	IRAP; P-LAP; Vp165
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR200188 representing NM\_133574  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGACCTTTACCAATGATCGACTTCAGCTTCCAAGGAATATGATTGAAAACAGCATGTTTGAAGAAG  
 AACAGATGTGGTAGATTTAGCCAAAGAACCTTGTTTACATCCTCTGGAACCTGATGAAGTTGAATATGA  
 GCCCCGAGGTTCCGAGGCTTCTGGTGAGAGGTCTTGGTGAGCATGAGATGGATGAGGATGAAGAGGATTAT  
 GAGTCATCTGCCAAGCTGCTGGGCATGTCTTCATGAACAGAAGCTCAGGCCTTCGGAACAGTGCAACAG  
 GCTACAGGCAGAGTCCAGATGGGACTTGTTTCAGTACCCTCTGCCAGGACCTTAGTAATCTGTGTTTTGT  
 CATTGTGGTTGCTGTCTGTGAATCATGGTGATTTATCTACTGCCTAGATGTACCTTTACCAAAGAAGGC  
 TGCCACAAAACAAACCAGTCAGCAGAACTATTACGCCGATTGCTACAAACGGGAAAGTGTTCATGGG  
 CACAAATTAGGCTTCCCCTGCCATTATCCTCAACGCTATGAACCTAGCCTACATCCAAACCTAACCTC  
 AATGACATTCAGGGGTTCTGTGACAATTCACCTCAGGCTCTTCAAGATACACGGGACATCATTCCAT  
 AGCACAGGACATAATATTTCAAGTGTGACATTTATGTCGGCGGTTCCAGTCAAGAAAAACAAGTTGAAA  
 TTCTGGAATATCCATATCATGAACAAATCGCCGTTGTTGCCCTGAAAGCCTTCTAACAGGACACAATTA  
 TACCTTGAAGATAGAATATTCAGCAAAATATCTAACTCTTACTATGGGTTTTATGGCATCACCTACACA  
 GATAAAAGTAATGAGAAAAAGAACTTTGCAGCAACTCAGTTTGAACCTTTGGCAGCAAGATCTGCTTTTC  
 CTTGTTTTGATGAACCAGCATTTAAGGCCACATTTATCATCAAGATCACAAAGGGATGAGCACCATACTGC  
 ATTATCAAATATGCCTAAGAAGTCATCAGTCCCTACAGAAGAAGGACTTATTCAAGATGAGTTTTCTGAA  
 AGTGTGAAAAATGAGCACATACCTGGTTGCTTTCATTGTAGGGGAGATGAGGAACCTGAGTCAGGATGTA  
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 TGTAAAGCTCCTTGAGTTTTATCAAATTACTTTGAAATTCATACCCACTAAAGAAATGGATCTGGTG  
 GCCATTCTGACTTTGAAGCAGGAGCAATGAAAAATTGGGGCCTGCTTACGTTCCGAGAAGAGACTCTTC  
 TGTATGACAATGCCACTTCTTCAGTAGCAGATAGAAAATGGTCACTAAAATCATCGCTCACGAGCTGGC  
 ACATCAGTGGTTTGGTAATCTGGTTACAATGCAGTGGTGAATGACCTGTGGCTAAACGAAGGCTTTGCC  
 ACTTTCATGGAGTATTTCTGTGGAAAAAATTTCAAAGAGCTCAACAGTTATGAAGACTTCTTAGATG  
 CTCGATTTAAAACCATGAGGAAAGATTCCTTGAATTCGTCTCATCCAATATCATCATCTGTTTCAGTCATC  
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 AGTTACCTTAGTGAAGACGTGTTTCAGCATGCCATCATTCTTTACCTGCACAATCACAGCTATGCAGCAA  
 TTCAAAGCGATGACCTCTGGGACAGCTTCAATGAGGTCACAGGCAAAACTCTAGATGTAAGAAAAATGAT  
 GAAAACCTGGACCTACAGAAAGGATCCCATTAGTGACCGTCCAGAGAAAGGGGACTGAGCTTCTTCTA  
 CAACAAGAAAGATTTTTTCCAAGCATGCAACCAGAAAATTCAGGATTCAGATACAAGCCACCTTTGGCATA  
 TTCCAATATCCTATGTCACTGATGGAAGAACTATTGAGAATATCGATCAGTTTCACTACTGGACAAGAA  
 ATCAGATGTCATCAATCTTACAGAACAAGTACAATGGGTCAAAGTCAATACAAACATGACGGGCTACTAC  
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 GTGACAAAAGACCGACCAACCTGATCAATAACATCTTTGAACTTGACGGCCTTGGCAAAGTGCCTCTTCA  
 GATGGCATTGATTTGATTGACTACCTTAGAAAATGAGACCCACACTGCACCTATCACTGAAGCCCTGTTT  
 CAGACTGACCTCATCTATAATCTCCTGGAAAAACTGGGACACATGGACCTGTCTCAAGATTAGTGACCA  
 GAGTACATAAAATTGCTCCAGAACCAAATCCAGCAGCAGACATGGACAGATGAAGGCACACCATCCATGCG  
 AGAGCTTCGGTCAGCCTTGTGGAATTTGCCTGCGCCACAGCCTAGAGAAGTGTACCACTATGGCCACA  
 AAGCTGTTTGTGTTGGATGGCATCAAATGGAACCTCAGAGCCTGCCGACTGACGTCATGACCACTGTGT  
 TCAAAGTTGGAGCAAGAACCAGAAAGGCTGGTTGTTCTCTTTAGCATGTACTCTCCATGGGCTCTGA  
 AGCAGAGAAGGATAAAATACTTGAAGCCCTGGCCAGCTCAGCGGATGCACATAAACTTTACTGGTATGGA  
 ACCACTCAAAGAGCATGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:** >RR200188 representing NM\_133574  
 Red=Cloning site Green=Tags(s)

METFTNDRLQLPRNMIENSMFEEEPDVVDLAKEPCLHPLEPDEVEYEPGRSRLLV RGLGEHEMDEDEEDY  
 ESSAKLLGMSFMNRSSGLRNSATGYRQSPDGTCSVPSARTLVICVFVIVVAVSVIMVIYLLPRCTFTKEG  
 CHKTNQSAELIQPIATNGKVFPWAQIRLPTAIIPQRYELSLHPNLTSMTFRGSVTISLQALQDTRDIILH  
 STGHNISSVTFMSAVSSQEKQVEILEYYPYHEQI AVVAPESLLTGHNYTLKIEYSANISNSYYGFYGITYT  
 DKSNEKKNFAATQFEPLAARSAFPCFDEPAFKATFI IKITRDEHHTALSMPKSSVPTEEGLIQDEFSE  
 SVKMSTYLVAFIVGEMRNLSDVNGTLVSVYAVPEKIDQVYHALDTTVKLLEFYQNYFEIQYPLKKLDLV  
 AIPDFEAGAMENWGLLTFREETLLYDNATSSVADRKLVTKIIAHEL AHQWFGNLVTMQWVNDLWLN EGFA  
 TFMEYFSVEKIFKELNSYEDFLDARFKTRKDSLNSHPISSSVSQSEQIEEMFDSL SYFKGASLLMLK  
 SYLSEDFVQHAIILYLHNHSYAAIQSDDLWDSFNEVTGKTL DVKKMMKTWTLQKGFPLVTVQRKGT ELL  
 QQERFFPSMQPEIQSDTSHLWHIPI SYVTDGRNYSEYRSVSLDKKSDVINL TEQVQVVKVNTNMTGY  
 IVHYAHDGWAALINQLKRNYPVLS DKDRANL INNIFELAGLGVPLQMAFDLIDYLRNETH TAPITEALF  
 QTDLIYNLLEKLGHMDLSSRLVTRVHKLLQNQIQQQTWTDEGTPSMRELR SALLEFACAHSLENC TTMAT  
 KLFDFGWMASNGTQSLPTDVM TTVFKVGARTEKGWFLFSMYSSMGSEAEKDKILEALASSADAHKLYWYG  
 TTQRAW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

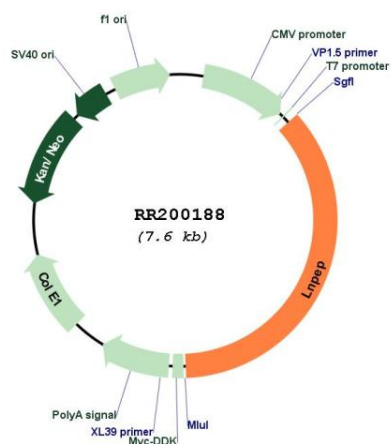


**ACCN:** NM\_133574

**ORF Size:** 2748 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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_133574.1</a> , <a href="#">NP_598258.1</a>
<b>RefSeq Size:</b>	3137 bp
<b>RefSeq ORF:</b>	2751 bp
<b>Locus ID:</b>	171105
<b>UniProt ID:</b>	<a href="#">P97629</a>
<b>Cytogenetics:</b>	1q12
<b>MW:</b>	104.6 kDa
<b>Gene Summary:</b>	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 RR200188