

Product datasheet for **MR209262**

Lnpep (BC066791) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lnpep (BC066791) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lnpep
Synonyms:	IRAP, gp160, vp165, CAP, PLAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209262 representing BC066791
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCGAAAACAGCATGTTTGAAGAAGAGCCAGATGTGGTAGATTTAGCCAAAGAACCTTGTTTACATC
 CTCTGGAACCCGATGAAGTGGAATATGAGCCCGAGGTTTCGAGGCTTCTGGTGCGAGGTCTTGGTGAGCA
 TGAGATGGACGAGGATGAAGAGGATTATGAGTCCTCTGCGAAGCTGCTGGGCATGTCCTTCATGAACAGA
 AGCTCAGGCCTGCGGAACAGTGCAGCAGGCTACAGGCAGAGTCCAGATGGGACTTGTTTACCTCTG
 CCAGGACCTTAGTGATCTGTGTTTTGTCATTGTGGTTGCGGTCTCTGTAATCATGGTGATTTATCTACT
 GCCTAGATGTACCTTTACCAAAGAAGGCTGCCACAAAACAACCAGTCAGCAGAACTCATCCAGCCAGTT
 GCTACAAACGGGAAAGTGTCCCATGGGCTCAAATTAGGCTTCCACTGCCATTATTCCTCTATGCTATG
 AACTTAGCTACATCCAAACCTAACCTCAATGACATTAGGGGATCTGTGACAATTCACCTCAGGCTCT
 TCAAGACACACGGGATATCATTCTCCATAGCACAGGACATAATATTTCAAGAGTGACATTTATGTCAGCA
 GTTTCAAGTCAAGAAAAACAAGTTGAAATTCGGAATATCCATATCATGAACAAATCGCCGTTGTTGCC
 CGGAACCTCTTCTAACAGGACACAATTATACCTGAAGATAGAGTATTCAGCAAATATATCTAACTCTTA
 TTATGGGTTTTATGGCATCACCTACACAGATAAAAGTAATGAGAAAAAGTACTTTGCAGCAACTCAGTTT
 GAACCTCTGGCAGCAAGATCTGCTTTTCCTTGTGTTGATGAACCAGCATTTAAGGCCACATTTATCATCA
 AGATCACAAAGGAATGAGCACCATACTGCGTTATCAAAATATGCCTAAGAAGTATCGGTCCCTGCAGAAGA
 AGGACTTATCAAGATGAGTTTTCTGAAAGTGAAAAAGCAGACATACCTGGTTGCTTTCATTGTAGGG
 GAGATGAGGAACCTGAGTCAGGATGTAATGGAAGTCTGGTTTCTGTGTATGCTGTACCAGAAAAAATG
 GTCAGTTCCACCATGCCCTGGACACAACATAAAGCTTCTTGAGTTTTATCAAACCTACTTTGAAATTC
 GTACCCACTTAAGAAATGGATTTGGTGGCCATTCCTGACTTTGAAGCAGGAGCAATGAAAACTGGGGC
 CTGCTTACATTCCGAGAAGAGACTCTTCTGTATGACAATGCAACTTCTCAGTAGCAGACAGAAAACTGG
 TCACTAAAATCATTGCTCACGAAGTGGCACATCAGTGGTTTGGAAATCTGGTTACAATGCAGTGGTGGAA
 TGACCTGTGGCTAAATGAAGGCTTGGCACTTTCATGGAGTATTTCTCTGTGGAAAAAATATTCAAAGAG
 CTCAACAGTTATGAAGACTTCTTAGATGCTCGATTTAAAACCATGAGGAAAGATTCCTTGAATTCGTCCTC
 ATCCAATATCATCTGTTGAGTCTTCGGAACAATAGAAGAAATGTTTGATTCTCTCCTATTTTAA
 GGGAGCTTCTCTTGTGATGCTGAAAAGTACCTTAGTGAAGATGATTTTCGGCATGCTGTCATTCTT
 TACCTGCACAATCACAGCTATGCAGCTATCCAAGTGATGATCTCTGGGACAGCTCAATGAGGTCACAG
 ACAAACCTCTAGATGTAAGAAAAATGATGAAAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209262 representing BC066791
 Red=Cloning site Green=Tags(s)

MIENSMFEEEPDVVDLAKEPCLHLEPDEVEYEPGRSRLVLRGLGEHEMDEDEEDYESSAKLLGMSFMNR
 SSGLRNSAAGYRQSPDGTCSLPSARTLVICVFVIVVAVSVIMVIYLLPRCTFTKEGCHKTNQSAELIQPV
 ATNGKVPWAQIRLPTAIIPLCYELSLHPNLTSMTFRGSVTISLQALQDTRDIILHSTGHNISRVTFMSA
 VSSQEQVEILEYYPYHEQIAVVAPEPLLGHNYTLKIEYSANISNSYYGFGITYTDKSNEKKYFAATQF
 EPLAARSAPCFDEPAFKATFIIKITRNEHHTALSNMPKSSVPAEEGLIQDEFSESVKMSTYLVAFIVG
 EMRNLSDVNGTLVSVYAVPEKIGQVHHALDITIKLLEFYQTYFEIQYPLKKLDLVAIPDFEAGAMENWG
 LLTFREETLLYDNATSSVADRKLVTKIIAHELAHQWFGNLTVMQWVNDLWLNDFEATFMEYFSVEKIFKE
 LNSYEDFLDARFKTRKDSLNSHPISSSVQSSEQIEEMFDSL SYFKGASLLMLKSYLSEDFVRHAVIL
 YLHNHSYAAIQSDDLWDSFNEVTDKTLDVKKMMKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9005_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC066791

ORF Size: 1785 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](#)

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: [BC066791.1](#)

RefSeq Size: 2767 bp

RefSeq ORF: 1787 bp

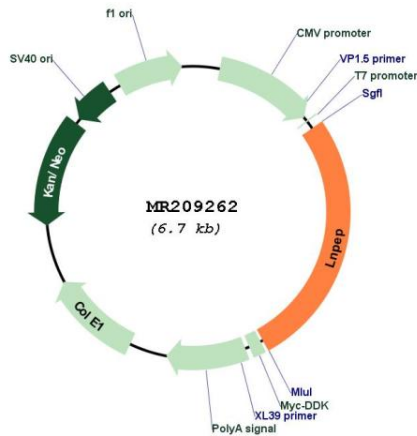
Locus ID: 240028

Cytogenetics: 17 A3.2

MW: 101.4 kDa

Gene Summary: Release of an N-terminal amino acid, cleave before cysteine, leucine as well as other amino acids. Degrades peptide hormones such as oxytocin, vasopressin and angiotensin III, and plays a role in maintaining homeostasis during pregnancy. May be involved in the inactivation of neuronal peptides in the brain. Cleaves Met-enkephalin and dynorphin. Binds angiotensin IV and may be the angiotensin IV receptor in the brain (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209262