

Product datasheet for **MG209262**

Lnpep (BC066791) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lnpep (BC066791) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lnpep
Synonyms:	IRAP, gp160, vp165, CAP, PLAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209262 representing BC066791
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCGAAAACAGCATGTTTGAAGAAGAGCCAGATGTGGTAGATTTAGCCAAAGAACCTTGTTTACATC
 CTCTGGAACCCGATGAAGTGGAATATGAGCCCGAGGTTTCGAGGCTTCTGGTGCGAGGTCTTGGTAGCA
 TGAGATGGACGAGGATGAAGAGGATTATGAGTCCTCTGCGAAGCTGCTGGGCATGTCCTTCATGAACAGA
 AGCTCAGGCCTGCGGAACAGTGCAGCAGGCTACAGGCAGAGTCCAGATGGGACTTGTTTACCTCTG
 CCAGGACCTTAGTGATCTGTGTTTTGTCATTGTGGTTGCGGTCTCTGTAATCATGGTGATTTATCTACT
 GCCTAGATGTACCTTTACCAAAGAAGGCTGCCACAAAACAACCAGTCAGCAGAACTCATCCAGCCAGTT
 GCTACAAACGGGAAAGTGTCCCATGGGCTCAAATTAGGCTTCCCACTGCCATTATTCCTCTATGCTATG
 AACTTAGCTACATCCAAACCTAACCTCAATGACATTCAGGGGATCTGTGACAATTCACCTCAGGCTCT
 TCAAGACACACGGGATATCATTCTCCATAGCACAGGACATAATATTTCAAGAGTGACATTTATGTCAGCA
 GTTTCAAGTCAAGAAAAACAAGTTGAAATTCGGAATATCCATATCATGAACAAATCGCCGTTGTTGCC
 CGGAACCTCTTCTAACAGGACACAATTATACCTGAAGATAGAGTATTCAGCAAATATATCTAACTCTTA
 TTATGGGTTTTATGGCATCACCTACACAGATAAAAGTAATGAGAAAAAGTACTTTGCAGCAACTCAGTTT
 GAACCTCTGGCAGCAAGATCTGCTTTTCCTTGTGTTTGAAGAACGATTTAAGGCCACATTTATCATCA
 AGATCACAAAGGAATGAGCACCATACTGCGTTATCAAATATGCCTAAGAAGTATCGGTCCCTGCAGAAGA
 AGGACTTATCAAGATGAGTTTTCTGAAAGTGTGAAAATGAGCACATACCTGGTTGCTTTTATTGATGGG
 GAGATGAGGAACCTGAGTCAGGATGTAATGGAAGTCTGGTTTCTGTGTATGCTGTACCAGAAAAATTG
 GTCAAGTTCCACCATGCCCTGGACACAATAAAGCTTCTTGTGTTTTATCAAACCTACTTTGAAATTC
 GTACCCACTTAAGAAATGGATTTGGTGGCCATTCTGACTTTGAAGCAGGAGCAATGGAAAACTGGGGC
 CTGCTTACATTCCGAGAAGAGACTCTTCTGTATGACAATGCAACTTCTTCAAGTAGCAGACAGAAAACTGG
 TCACTAAAATCATTGCTCACGAAGTGGCACATCAGTGGTTTGGAAATCTGGTTACAATGCAGTGGTGGAA
 TGACCTGTGGCTAAATGAAGGCTTTGCCACTTTCATGGAGTATTTCTCTGTGGAAAAATATTCAAAGAG
 CTCAACAGTTATGAAGACTTCTTAGATGCTCGATTTAAAACCATGAGGAAAGATTCCTTGAATTCGTCCTC
 ATCCAATATCATCTGTTTCTGCTTCGGAACAAATAGAAGAAATGTTTGATTCTCTCTCTATTTTAA
 GGGAGCTTCTCTTGTGATGCTGAAAAGTACCTTAGTGAAGATGATTTTCGGCATGCTGTCATTCTT
 TACCTGCACAATCACAGCTATGCAGCTATCCAAAGTGATGATCTCTGGGACAGCTCAATGAGGTCACAG
 ACAAACCTCTAGATGTAAGAAAAATGATGAAAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209262 representing BC066791
 Red=Cloning site Green=Tags(s)

MIENSMFEEEPDVVDLAKEPCLHPLEPDEVEYEPGRSRLLVRLGHEHMEDEEEDYESSAKLLGMSFMNR
 SSGLRNSAAGYRQSPDGTCSLPSARTLVICVFVIVVAVSVIMVIYLLPRCTFTKEGCHKTNQSAELIQPV
 ATNGKVPWAQIRLPTAIIPLCYELSLHPNLTSMFRGSVTISLQALQDTRDIILHSTGHNISRVTFMSA
 VSSQEKQVEILEYYPHEQIAVVAPEPLL TGHNYTLKIEYSANISNSYYGFYGYTYDKSNEKKYFAATQF
 EPLAARSAPCFDEPAFKATFIIKITRNEHTALSNMPKSSVPAEEGLIQDEFSESVKMSTYLVAFIVG
 EMRNLSDQVNGTLVSVYAVPEKIGQVHHDLTIIKLEFYQTYFEIQYPLKKLDLVAIPDFEAGAMENWG
 LLTFREETLLYDNATSSVADRKLVTKIIAHELAHQWFGNLTVMQWVNDLWLNFGFATFMEYFVSEKIFKE
 LNSYEDFLDARFKTMRKDSLNSHPISSSVQSSEQIEEMFDSLSYFKGASLLMLKSYLSEDFVRHAVIL
 YLHNHSYAAIQSDDLWDSFNEVTDKTLDVKKMMKT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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
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]