

Product datasheet for **MG223216**

Lnpep (NM_172827) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lnpep (NM_172827) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lnpep
Synonyms:	2010309L07Rik; 4732490P18Rik; CAP; gp160; IRAP; PLAP; vp165
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223216 representing NM_172827 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCCTTTACCAATGATCGGCTTCAGCTTCCAAGGAATATGATCGAAAACAGCATGTTTGAAGAAG
AGCCAGATGTGGTAGATTTAGCCAAAGAACCTGTTTACATCCTCTGGAACCCGATGAAGTGAATATGA
GCCCGAGGTCGAGGCTTCTGGTGCAGGCTTGGTGAGCATGAGATGGACGAGGATGAAGAGGATTAT
GAGTCTCTCGAAGCTGCTGGCATGCTCTTCAACAGAAGCTCAGGCTCGCGAACAGTGCAGCAG
GCTACAGGCAGAGTCCAGATGGGACTTGTTCATTACCCTCTGCCAGGACCTTAGTGATCTGTGTTTTGT
CATTGTGGTTGCGGTCTCTGTAATCATGGTGATTTATCTACTGCCTAGATGTACCTTTACCAAAGAAGGC
TGCCACAAAACAAACCAGTCAGCAGAACTCATCCAGCCAGTTGCTACAAACGGGAAAGTGTCCCATGGG
CTCAAATTAGGCTTCCCCTGCCATTATTCCTCTATGCTATGAACCTAGCCTACATCCAAACCTAACCTC
AATGACATTCAGGGGATCTGTGACAATTCACCTCAGGCTCTTCAAGACACACGGGATATCATTCTCCAT
AGCACAGGACATAATATTTCAAGAGTGACATTTATGTCAGCAGTTTCAAGTCAAGAAAAACAAGTTGAAA
TTCTGGAATATCCATATCATGAACAAATCGCCGTTGTTGCCCGGAACCTCTTCTAACAGGACACAATTA
TACCCTGAAGATAGAGTATTCAGCAAATATATCTAACTCTTATTATGGGTTTTATGGCATCACCTACACA
GATAAAAGTAATGAGAAAAAGTACTTTGCAGCAACTCAGTTTGAACCTCTGGCAGCAAGATCTGCTTTTC
CTGTTTTGATGAACCAGCATTAAAGGCCACATTTATCATCAAGATCACAAAGGAATGAGCACCATACTGC
GTTATCAAATATGCCTAAGAAGTCATCGGTCCCTGCAGAAGAAGGACTTATTCAAGATGAGTTTTCTGAA
AGTGTGAAAATGAGCACATACCTGGTTGCTTTCATTGTAGGGGAGATGAGGAACCTGAGTCAGGATGTA
ATGGAACCTCTGGTTTCTGTGTATGCTGTACCAGAAAAAATGGTCAAGTTCACCATGCCTTGACACAAC
TATAAAGCTTCTGAGTTTTATCAAACCTACTTTGAAATTCAGTACCCACTTAAGAAATGGATTGGTG
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ACTTTCATGGAGTATTTCTCTGTGGAAAAATATTCAAAGAGCTCAACAGTTATGAAGACTTCTTAGATG
 CTCGATTTAAACCATGAGGAAAGATTCCTTGAATTCGTCTCATCCAATATCATCATCTGTTTCAGCTTC
 GGAACAAATAGAAGAAATGTTTGATTCTCTCTCTATTTAAAGGGAGCTTCTCTTGTGATGCTGAAA
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 AGCAGAAAAGAATAAAATTTTGAAGCTTGGCCAGCTCAGAGGATGTACATAAACTTTACTGGTTAATG
 AAAAGTAGCCTTGGTGGACATCATCCGAACACAGAAGTTGTCCTTATCATTAGAACAGTGGGCAGAC
 ATTTTCTGGACACTTGGTGGCTGGGATTTTGTAAAGAAAACCTGGAATAAGCTTGTACATAAGTTCCA
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 TCTGAGGTCCAGGCATTTCTTAAAAATCAGTCAGAGGCAACCTTGAAGCTTCGGTGTGTTCCAGGAGCCT
 TGAAGTGATTCAGCTGAATATCCAGTGGATGGTCAGGAATCTGAAAACGCTCTCCAGTGGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG223216 representing NM_172827
 Red=Cloning site Green=Tags(s)

MESFTNDRLQLPRNMIENSMEFEEDVDVLAKEPCLHPLEPDEVEYEPGRSRLVRLGHEHMEDEEEDY
 ESSAKLLGMSFMNRSSGLRNSAAGYRQSPDGTCSLPSARTLVICVFVIVVAVSVIMVIYLLPRCTFKEG
 CHKTNQSAELIQPVATNGKVFPAQIRLPTAIPLCYELSLHPNLTSMFRGVSITISLQALQDTRDIILH
 STGHNISRVTFMSAVSSQEKQVEILEYPYHEQIAVVAPEPLLGHNYTLKIEYSANISNSYYGFYGITYT
 DKSNEKKYFAATQFEPLAARSAFPCFDEPAFKATFIKIITRNEHHTALSNMPKSSVPAEEGLIQDEFSE
 SVKMSTYLVAFIVGEMRNLSDVNGTLVSYYAVPEKIGQVHHALDITIKLLEFYQTYFEIQYPLKKLDLV
 AIPDFEAGAMENWGLLTFREETLLYDNATSSVADRKLVTKIIAHEL AHQWFGNLVTMQWVNDLWLNFGFA
 TFMEYFVSEKIFKELNSYEDFLDARFKTMRKDSLNSHPISSSVQSSEQIEEMFDSL SYFKGASLLMLK
 SYLSEDFRHAVILYLHNHSYAAIQSDDLWDSFNEVTDKTL DVKMMKTWTLQKGFPLVTVQRKGTELLL
 QQERFFLRMQPESQPSDTSHLWHIPISYVTDGRNYSEYRSVSLLDKSDVINLTEQVQWVKVNSNMTGY
 IVHYAHDWTALINQLKRNYPYVLSKDNRANL INNIFELAGLGKVP LRFMAFDLIDYLNETH TAPITEALF
 QTNLINLLEKLGHMDLSSRLVARVHKLLQNQIQQTWTDEGTPSMRELRSALLEFACAHLENCTTMTAT
 NLFDSWMSNGTQSLPTDVMVTVFKVGARTEKGWFLFSMYSSMGSEAEKNKILEALASSEDVHKLWYLM
 KSSLDGDIIRTQKLSLIIRTVGRHFPGLLAWDFVKENWNKLVHKFHLGSYTIQSIIVAGSTHLFSTKTHL
 SEVQAFENQSEATLKLRCVQEALVIQLNIQWVVRNLKTL SQWL

TRTRPLE – GFP Tag – V

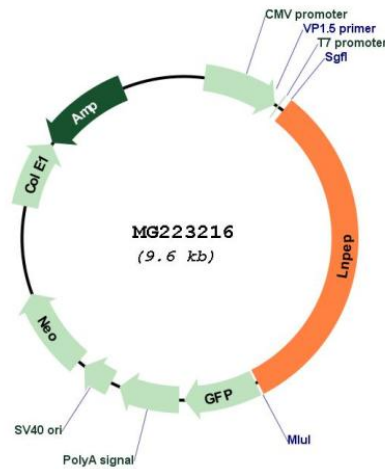
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172827

ORF Size: 3075 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:	<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:	<u>NM_172827.3</u> , <u>NP_766415.1</u>
RefSeq Size:	5181 bp
RefSeq ORF:	3078 bp
Locus ID:	240028
UniProt ID:	<u>Q8C129</u>
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]