

Product datasheet for **RC204327**

Leupaxin (LPXN) (NM_004811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Leupaxin (LPXN) (NM_004811) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Leupaxin
Synonyms:	LDPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204327 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGAGTTAGATGCCTTATTGGAGGAAGTGAACGCTCCACCCTTCAGGACAGTGATGAATATTCCA
ACCCAGCTCCTCTCCCTGGATCAGCATTCCAGAAAGGAGACTAACCTTGATGAGACTTCGGAGATCCT
TTCTATTCAGGATAACACAAGTCCCTTGCCGGCGCAGCTCGTGTATACTACCAATATCCAGGAGCTCAAT
GTCTACAGTGAAGCCCAAGAGCCAAAGGAATCACCACCACCTTCTAAACGTGAGCAGCTGCTCAGTTGG
ATGAGCTCATGGCTCACCTGACTGAGATGCAGGCCAAGTTGCAGTGAGAGCAGATGCTGGCAAGAAGCA
CTTACCAGACAAGCAGGATCACAGGCCCTCCCTGGACTCAATGCTTGGGGTCTCGAGCAGGAATTGCAG
GACCTTGGCATTGCCACAGTGCCCAAGGGCCATTGTGCATCCTGCCAGAAACCGATTGCTGGGAAGGTGA
TCCATGCTCTAGGGCAATCATGGCATCCTGAGCATTTTGTCTGTACTCATTGCAAAGAAGAGATTGGCTC
CAGTCCCTTCTTTGAGCGGAGTGGCTTGGCCTACTGCCCAACGACTACCACCAACTTTTTTCTCCACGC
TGTGCTTACTGCGCTGCTCCCATCCTGGATAAAGTGCTGACAGCAATGAACCAGACCTGGCAGCAGAGC
ACTTCTTCTGCTCTCACTGCGGAGAGGTGTTTGGTGCAGAAGGCTTTCATGAGAAGGACAAGAAGCCATA
TTGCCGAAAGGATTTCTTAGCCATGTTCTACCCAAGTGTGGTGGCTGCAATCGCCAGTGTTGAAAAAC
TACCTTTCAGCCATGGACACTGTCTGGCACCCAGAGTGCTTTGTTGTGGGGACTGCTTCACCAAGTTTTT
CTACTGGCTCCTTCTTTGAAGTGGATGGAGCTCATTCTGTGAGCTCCATTACCATCACCGCCGGGGAAC
GCTCTGCCATGGGTGTGGGCAGCCCATCACTGGCCGTTGTATCAGTGCCATGGGGTACAAGTTCATCCT
GAGCACTTTGTGTGCTTTCTGCCTGACACAGTTGTGAAGGGCATTTCAGGGAGCAGAAATGACAAGA
CCTATTGTCAACCTTGCTTCAATAAGCTCTTCCCACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC204327 protein sequence
 Red=Cloning site Green=Tags(s)

MEELDALLEELERSTLQDSDEYSNPAPLPLDQHSRKETNLDETSEILSIQDNTSPLPAQLVYTTNIQELN
 VYSEAEQEPKESPPPSKTSAAAQLDEMAHLTEMQAKVAVRADAGKKHLPDKQDHKASLDSMLGGLEQELQ
 DLGIATVPKGHCASCQKPIAGKVIHALGQSWHPEHFVCTHCKEEIGSSPFFERSGLAYCPNDYHQLFSPR
 CAYCAAPILDKVLTAMNQTWHPHEHFFCSHCGEVFGAEGFHEKDKKPYCRKDFLAMFSPKCGGCNRPVLEN
 YLSAMDTVWHPECFVCGDCFTSFSTGSFFELDGRPFCELYHHRRGTLCHGCGQPITGRGISAMGYKFHP
 EHFVCAFCCLTQLSKGIFREQNDKTYCQPCFNKLFPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6060_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004811

ORF Size: 1158 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004811.3](#)

RefSeq Size: 1926 bp

RefSeq ORF: 1161 bp

Locus ID: 9404

UniProt ID: [O60711](#)

Cytogenetics: 11q12.1

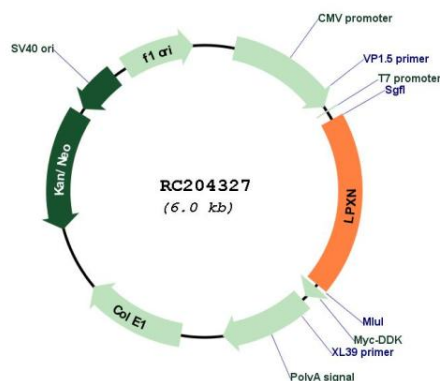
Domains: LIM

Protein Families: Druggable Genome

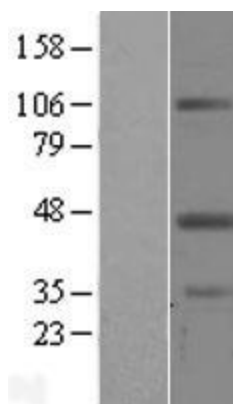
MW: 43.3 kDa

Gene Summary: The product encoded by this gene is preferentially expressed in hematopoietic cells and belongs to the paxillin protein family. Similar to other members of this focal-adhesion-associated adaptor-protein family, it has four leucine-rich LD-motifs in the N-terminus and four LIM domains in the C-terminus. It may function in cell type-specific signaling by associating with PYK2, a member of focal adhesion kinase family. As a substrate for a tyrosine kinase in lymphoid cells, this protein may also function in, and be regulated by, tyrosine kinase activity. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Jan 2009]

Product images:



Circular map for RC204327



Western blot validation of overexpression lysate (Cat# [LY401512]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204327 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).