

Product datasheet for RC204762

RIL (PDLIM4) (NM_003687) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIL (PDLIM4) (NM_003687) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RIL
Synonyms:	RIL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204762 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCCATTCGGTGACCTGCGCGGGCCTTCGCCCTGGGGCTTCGCCCTGGTGGGCGGCCGGGACTTCA
 GCGCGCCCTCACCATCTCAGGGTCCATGCTGGCAGCAAGGCTGCATTGGCTGCCCTGTGCCAGGAGA
 CCTGATCCAGGCCATCAATGGTGAGAGCACAGAGCTCATGACACACCTGGAGGCACAGAACCGCATCAAG
 GGCTGCCACGATCACCTCACACTGTCTGTGAGCAGGCCTGAGGGCAGGAGCTGGCCAGTGCCCTGATG
 ACAGCAAGGCTCAGGCACACAGGATCCACATCGATCCTGAGATCCAGGACGGCAGCCCAACAACAGCAG
 GGGGCCCTCAGGCACCGGACTGGGCCAGAAGATGGCAGACCAAGCCTGGGATCTCCATATGGACAACCC
 CCTCGCTTTCCAGTCCCTCACAATGGCAGCAGCGAGGCCACCCTGCCAGCCAGATGAGCACCTGCATG
 TGTCTCCACCCCCAGCGCTGACCCAGCCAGAGGCCTCCCGCGGAGCCGGGACTGCAGAGTCGACCTGGG
 CTCCGAGGTGTACAGGATGCTGCGGGAGCCAGCCGAGCCCGTGGCCGCGGAGCCCAAGCAGTCAGGCTCC
 TTCCGCTACTTGAGGGCATGCTAGAGGCCGCGAGGGCGGGGATTGGCCCGGGCCTGGCGGCCCGGGA
 ACCTCAAGCCACGGCCAGCAAGCTGGGCGCTCCGCTGAGCGGCTGCAGGGGCTGCCGAGTGACGCG
 CTGCGGCCACGGCATCGTGGGCACCATCGTCAAGGCACGGGACAAGCTCTACCATCCGAGTGCTTCATG
 TGCAGTGACTGCGGCCTGAACCTCAAGCAGCGTGGTTACTTCTTCTGGACGAGCGGCTCTACTGTGAGA
 GCCACGCCAAGGCGCGCTGAAGCCGCCGAGGGCTACGACGTGGTGGCGGTGTACCCCAATGCCAAGGT
 GGAACTCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC204762 protein sequence
 Red=Cloning site Green=Tags(s)

MPHSVTLRGPSPWGFRLLVGGRDFSAPLTISR VHAGSKAALALCPGDLIQAINGESTELMTHLEAQNRIK
 GCHDHLTLSVSRPEGRSWPSAPDDSKAQAHRIHIDPEIQDGSPTTSRGPSGTGTGPEDGRPSLGSPYQGP
 PRFPVPHNGSSEATLPAQMSTLHVSPPPSADPARGLPRSRDCRVDLGSEVYRMLREPAEPVAAEPKQSGS
 FRYLQGMLEAGEGGDWP GPGGPRNLKPTASKLGAPLSGLQGLPECTRCGHGIVGTIVKARDKLYHPECFM
 CSDCGLNLKQRGYFFLDERLYCESHAKARV KPPEGYDVVAVYPNAKVELV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6171_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003687

ORF Size: 990 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_003687.4](#)

RefSeq Size: 2307 bp

RefSeq ORF: 993 bp

Locus ID: 8572

UniProt ID: [P50479](#)

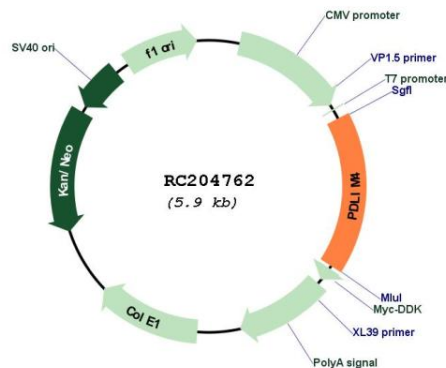
Cytogenetics: 5q31.1

Domains: PDZ, LIM

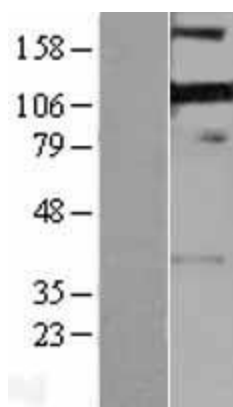
MW: 35.3 kDa

Gene Summary: This gene encodes a protein which may be involved in bone development. Mutations in this gene are associated with susceptibility to osteoporosis. [provided by RefSeq, Nov 2009]

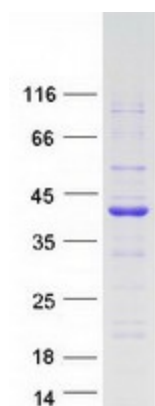
Product images:



Circular map for RC204762



Western blot validation of overexpression lysate (Cat# [LY401217]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204762 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PDLIM4 protein (Cat# [TP304762]). The protein was produced from HEK293T cells transfected with PDLIM4 cDNA clone (Cat# RC204762) using MegaTran 2.0 (Cat# [TT210002]).