

## Product datasheet for **MC204696**

### **Pdlim4 (NM\_019417) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pdlim4 (NM_019417) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pdlim4
Synonyms:	Ril
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC030068 AGTCCCGCCCGCATGACCCACTCGGTGACCCTGCGCGGCCCTTACCCTGGGGCTTCGCCTGGTGGG CGGCCGGGACTTCAGTGCTCCCCTCACCATCTCGCGGTTTCATGCTGGGAGCAAAGCGGCCCTGGCTGCC CTGTGCCAGGTGACTTGATCCAAGCCATCAACGCGGAGAGCACTGAGCTCATGACACACCTGGAGGCC AGAACCGCATTAAAGGCTGCCACGATCATCTTACGCTCTCGGTGACGAGGCTGAGAATAAGAACTGGCC CAGTGCTCCTGATGACAAGGCTCAAGCACATAGGATCCACATTGACCCTGAGTCCCAGGACTGCAGTCCA GCCACCAGCAGGCGCTCCTCAGTCTCTGGGATTAGTCTGGAGGACAACAGATCGGGCCTGGGATCTCCAT ATGGTCAGCCACCTCGCCTTCCAGTCCCTCACAATGGCAGCAGCAACGAGGCCACCCTGCCAGCCCAGAT GAGCGCTCTGCATGTGTCTCCACCCACCAGTGCCGACACAGCCAGGGTTCTCCCTCGGAACCGGGACTGC AGGGTAGACCTGGGTTCCAGAGGTATACAGGATGTTAAGGGAGCCAGCAGAGCCCACAGCCTCGGAGCCGA AACAGTCAGGATCCTTCCGCTACCTGCAGGGCATGCTAGAGGCTGGCAGGGCGGGGATCGGCCTGGGTC TGGTGGTCCCGAACCTCAAACCAGCAGCCAGCAAGCTCGGTGCTCCACTGAGTGGCCTGCAGGGGCTA CCAGAGTGCACGCGCTGCGGCCACGGGATCGTGGGAACCATTTGTCAAGGCGAGAGACAAGCTCTACCATC CGGAGTGCTTCATGTGCAGCGACTGCGGCCGAACTCTCAAACAGCGTGGGTACTTCTTCTAGATGAACG GCTGTACTGTGAGAAATCACGCCAAGGCTCGAGTCAAGCCGCCGGAGGGATATGATGTGGTGGCTGTATAC CCCAATGCTAAGGTGAACTTGTCTGAGCTGAAAAATCTTGTCTTGCCTCTGCTTCACTTAATGTTCCCT CATGGCCTGTGTAATATATGTCCTCCTGGCCTTCTAATAAAGTCCCTTCTGCTTGTCTGAAAAA AAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	EcoRI-NotI
ACCN:	NM_019417
Insert Size:	993 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC030068</a></u> , <u><a href="#">AAH30068</a></u>
<b>RefSeq Size:</b>	1143 bp
<b>RefSeq ORF:</b>	993 bp
<b>Locus ID:</b>	30794
<b>UniProt ID:</b>	<u><a href="#">P70271</a></u>
<b>Cytogenetics:</b>	11 32.13 cM
<b>Gene Summary:</b>	Suppresses SRC activation by recognizing and binding to active SRC and facilitating PTPN13-mediated dephosphorylation of SRC 'Tyr-419' leading to its inactivation. Inactivated SRC dissociates from this protein allowing the initiation of a new SRC inactivation cycle. Involved in reorganization of the actin cytoskeleton (By similarity). In nonmuscle cells, binds to ACTN1 (alpha-actinin-1), increases the affinity of ACTN1 to F-actin (filamentous actin), and promotes formation of actin stress fibers. Involved in regulation of the synaptic AMPA receptor transport in dendritic spines of hippocampal pyramidal neurons directing the receptors toward an insertion at the postsynaptic membrane. Links endosomal surface-internalized GRIA1-containing AMPA receptors to the alpha-actinin/actin cytoskeleton. Increases AMPA receptor-mediated excitatory postsynaptic currents in neurons (By similarity). [UniProtKB/Swiss-Prot Function]