

Product datasheet for **SC215764**

LIM kinase 2 (LIMK2) (NM_005569) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	LIM kinase 2 (LIMK2) (NM_005569) Human 3' UTR Clone
Symbol:	LIM kinase 2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_005569
Insert Size:	1669 bp



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Insert Sequence: >SC215764 3'UTR clone of NM_005569
 The sequence shown below is from the reference sequence of NM_005569. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TACGGCCTGACCCGGGACTCACCTCCCAGCCCTGGCCAGCCCCCTGCAGGGGGTGTCTACAGCCA
GCATTGCCCTCTGTGCCCATTCCTGTGTGAGCAGGGCCGTCCGGGCTTCTGTGATTGGCGGAAT
GTTTAGAAGCAGAACAAGCCATTCTATTACCTCCCAGGAGGCAAGTGGGCGCAGCACCAGGAAATG
TATCTCCACAGTTCTGGGGCTAGTTACTGTCTGTAATCCAATACTTGCCTGAAAGCTGTGAAGAAG
AAAAAACCCCTGGCCTTTGGGCCAGGAGGAATCTGTTACTCGAATCCACCCAGGAACTCCCTGGCAGT
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ACCTGCCTGTGAAGTCTGAAGTCACTAGTCCAGCTGGGTGCAGGAGGACTTCAAGTGTGTGGACGAAAG
AAAGACTGATGGCTCAAAGGGTGTGAAAAAGTCAGTGATGCTCCCCTTTCTACTCCAGATCCTGTCTCT
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AGAGAAAGGGCTGGCTTCTGTTTACCTGCTCACTGGCTCTAGCCAGCCCAGGGACCACATCAATGTGAG
AGGAAGCCTCCACCTCATGTTTTCAAATTAATACTGGAGACTGGCTGAGAACTTACGGACAACATCCT
TTCTGTCTGAAACAAACAGTCACAAGCAAAGGAAGAGGGCTGGGGGACTAGAAAGAGGCCCTGCCCTCTA
GAAAGCTCAGATCTTGGCTTCTGTTACTCATACTCGGGTGGGCTCCTTAGTCAGATGCCTAAAACATTT
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TAGGCAGCAGCTTGGGCTGGGAAGAGTGGTGGCAGAGTCTCAAAGCTGAGATGCTGAGAGAGATAGCT
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TCTCCTGAGCCACATGTGCAGGTAAGTGGAAAACCTCCATCTTGGCTCCCAGAGCTCTAGGAACTCTTC
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GTTAATATTATCTTATCTATTGGGTGGTATGTGAAATATTGTACATAGACCTGATGAGTTGTGGACCA
GATGTCATCTCTGGTCAGAGTTTACTTGTATATAGACTGTAATATGTGTGAAGTTTGAAGCTTGTCT
TTAGGGCTGAGCCCTGGACTCCCAGCAGCAGCACAGTTCAGCATTGTGTGGCTGGTTGTTTCTGGCTG
TCCCCAGCAAGTGTAGGAGTGGTGGCCCTGAACTGGGCCATTGATCAGACTAAATAAATTAAGCAGTTA
ACATAACTGGCAA
ACGCGTAAAGCGCCGCGGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: Sgfl-Mlul

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_005569.4](#)

Summary:

There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protein-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. The protein encoded by this gene is phosphorylated and activated by ROCK, a downstream effector of Rho, and the encoded protein, in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. It is thought that this pathway contributes to Rho-induced reorganization of the actin cytoskeleton. At least three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Locus ID:

3985

MW:

61.5