

Product datasheet for **SC213301**

LIM Kinase 1 (LIMK1) (NM_002314) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	LIM Kinase 1 (LIMK1) (NM_002314) Human 3' UTR Clone
Symbol:	LIM Kinase 1
Synonyms:	LIMK; LIMK-1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_002314
Insert Size:	1254 bp



[View online »](#)

Insert Sequence: >SC213301 3'UTR clone of NM_002314
The sequence shown below is from the reference sequence of NM_002314. 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
CTGCCTGCCACCTGAGGTCCCCGACTGAGCCAGGGCCACTCAGCTGCCCTGTCCCCACCTCTGGAG
AATCCACCCCCACCAGATTCTCCGCGGGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTC
CTCAGAGCCAGGCCCTGACTTGCCTTCTCCACCCCGTGGACCGTTCCCTGCCTTCTCTGCGGTG
GCCAGAGCCGGCCAGCTGCACACACACCATGCTCTGCCCTGCTGTAACCTCTGTCTTGGCAGGG
CTGTCCCCTCTTGCTTCTCTTGCATGAGCTGGAGGGCCTGTGTGAGTTACGCCCTTTCCACACGCCG
CTGCCCCAGCAACCCTGTTACGCTCCACCTGTCTGGTCCATAGCTCCCTGGAGGCTGGGCCAGGAGGC
AGCCTCCGAACCATGCCCATATAACGCTTGGGTGCGTGGGAGGGCGCACATCAGGGCAGAGGCCAAGT
TCCAGGTGTCTGTGTTCCAGGAACCAATGGGGAGTCTGGGGCCGTTTTCCCCCAGGGGGTGTCTA
GGTAGCAACAGGTATCGAGGACTCTCAAACCCCCAAAGCAGAGAGAGGGCTGATCCCATGGGGCGGAG
GTCCCCAGTGGCTGAGCAACAGCCCCTTCTCTCGCTTTGGGTCTTTTTTTTGTCTTTCTTAAAGCC
ACTTTAGTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGGTCCCTTGAGGGAGCGTGGAGCTGCGGT
GCCCTGGCCGGCGATGGGGAGGAGCCGGCTCCGGCAGTGAGAGGATAGGCACAGTGGACCGGGCAGGTG
TCCACCAGCAGCTCAGCCCCTGCAGTCTCTCAGAGCCCCTTCCCGGGCCTCTCCCCAAGGCTCCCTG
CCCCTCTCATGCCCTCTGTCTCTGCGTTTTTCTGTGTAATCTATTTTTTAAGAAGAGTTTGTATT
ATTTTTTCATACGGCTGCAGCAGCAGCTGCCAGGGCTTGGGATTTATTTTTGTGGCGGGCGGGGTG
GGAGGGCCATTTTGTCACTTTGCCTCAGTTGAGCATCTAGGAAGTATTAACACTGTGAAGCTTTCTCAG
TGCACTTTGAACCTGGAAAACAATCCCAACAGGCCCGTGGGACCATGACTTAGGGAGGTGGGACCCACC
CACCCCATCCAGGAACCGTGACGTCCAAGGAACCAACCCAGACGCAGAACAAATAAAATAAATTCCGT
ACTCCCCACCCA
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites: SgfI-MluI

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_002314.4](#)

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. LIMK1 is a serine/threonine kinase that regulates actin polymerization via phosphorylation and inactivation of the actin binding factor cofilin. This protein is ubiquitously expressed during development and plays a role in many cellular processes associated with cytoskeletal structure. This protein also stimulates axon growth and may play a role in brain development. LIMK1 hemizyosity is implicated in the impaired visuospatial constructive cognition of Williams syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Feb 2011]

Locus ID:

3984

MW:

44.4