

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 Neomycin

Selection:

Vector:

pMirTarget (PS100062)

ACCN: NM_002314

Insert Size: 1254 bp

OriGene Technologies, Inc.

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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

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAA<mark>GCGATCGC</mark>C

CTGCCTGCCCACCCTGAGGTCCCCGACTGAGCCAGGGCCACTCAGCTGCCCCTGTCCCCACCTCTGGAG AATCCACCCCACAGATTCCTCCGCGGGAGGTGGCCCTCAGCTGGGACAGTGGGGACCCAGGCTTCTC CTCAGAGCCAGGCCCTGACTTGCCTTCTCCCACCCCGTGGACCGCTTCCCCTGCCTTCTCTCTGCCGTG GCCCAGAGCCGGCCCAGCTGCACACACACACCATGCTCTCGCCCTGCTGTAACCTCTGTCTTGGCAGGG CTGTCCCCTCTTGCTTCCCTTGCATGAGCTGGAGGGCCTGTGTGAGTTACGCCCCTTTCCACACGCCG CTGCCCCAGCAACCCTGTTCACGCTCCACCTGTCTGGTCCATAGCTCCCTGGAGGCTGGGCCAGGAGGC AGCCTCCGAACCATGCCCCATATAACGCTTGGGTGCGTGGGAGGGCGCACATCAGGGCAGAGGCCAAGT TCCAGGTGTCTGTGTTCCCAGGAACCAAATGGGGAGTCTGGGGCCCGTTTTCCCCCCAGGGGGTGTCTA ACTTTAGTGAGAAGCAGGTACCAAGCCTCAGGGTGAAGGGGGTCCCTTGAGGGAGCGTGGAGCTGCGGT GCCCTGGCCGGCGATGGGGAGGCCGGCTCCGGCAGTGAGAGGATAGGCACAGTGGACCGGGCAGGTG TCCACCAGCAGCTCAGCCCCTGCAGTCATCTCAGAGCCCCTTCCCGGGCCTCTCCCCCAAGGCTCCCTG CCCCTCCTCATGCCCCTCTGTCCTCTGCGTTTTTTCTGTGTAATCTATTTTTTAAGAAGAGTTTGTATT GGAGGGCCATTTTGTCACTTTGCCTCAGTTGAGCATCTAGGAAGTATTAAAACTGTGAAGCTTTCTCAG TGCACTTTGAACCTGGAAAACAATCCCAACAGGCCCGTGGGACCATGACTTAGGGAGGTGGGACCCACC ACTCCCCACCCA

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

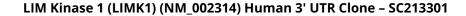
polymorphisms (SNPs).

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 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 hemizygosity 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