

Product datasheet for RC232481

LIMS1 (NM_001193488) Human Tagged ORF Clone

Product data:

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|--------------------------|--------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | LIMS1 (NM_001193488) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | LIMS1 |
| Synonyms: | PINCH; PINCH-1; PINCH1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC232481 representing NM_001193488 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAACGCCCTGGCCAGCGCCACTTGCAGCGCTGCAAGGGCGGCTTTGCGCCCGCTGAGAAGATCG
TGAACAGTAATGGGGAGCTGTACCATGAGCAGTGTTCGTCGCGCTCAGTGCTCCAGCAGTCCCAGA
AGGACTCTTCTATGAGTTTGAAGGAAGAAAGTACTGTGAACATGACTTTCAGATGCTCTTTGCCCTTGC
TGTCATCAGTGTGGTGAATTCATCATTGGCCGAGTTATCAAAGCCATGAATAACAGCTGGCATCCGAGT
GCTTCCGCTGTGACCTCTGCCAGGAAGTTCTGGCAGATATCGGGTTTGTCAAGAATGCTGGGAGACACCT
GTGTGCGCCCTGTATAATCGTGAGAAAGCCAGAGGCCTTGGGAAATACATCTGCCAGAAATGCCATGCT
ATCATCGATGAGCAGCCTCTGATATTCAAGAACGACCCCTACCATCCAGACCATTCAACTGCGCCAAC
GCGGGAAGGAGCTGACTGCCGATGCACGGGAGCTGAAAGGGGAGCTATACTGCCTCCCATGCCATGATAA
AATGGGGTCCCCATCTGTGGTCTTGGCAGCGCCATCGAAGGGCGCGTGGTGAACGCTATGGCAAG
CAGTGGCATGTGGAGCATTTTGTGGTGGCAAGTGTGAGAAACCCTTTCTGGACATCGCATTATGAGA
GGAAAGGCCTGGCATATTGTGAACTCACTATAACCAGCTATTTGGTGATGTTTGTCTCCACTGCAATCG
TGTTATAGAAGGTGATGTGGTCTCTGCTTAATAAGGCCTGGTGGTGAAGTGGCTTTGCCCTGTTCTACC
TGCAACACTAAATTAACACTCAAGAATAAGTTTGTGGAGTTTGACATGAAGCCAGTCTGTAAAGTGTCT
ATGAGAAATTTCCATTGGAGCTGAAGAAAAGACTTAAGAACTAGCTGAGACCTTAGGAAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232481 representing NM_001193488
 Red=Cloning site Green=Tags(s)

MANALASATCERCKGGFAPAEEKIVNSNGELYHEQCFVCAQCFQQFPEGLFYEFEGRKYCEHDFQMLFAPC
 CHQCGEFIIIGRVIKAMNNSWHPECFRCDLCQEVLADIGFVKNAGRHLCRPCHNREKARGLGKYICQKCHA
 IDEQPLIFKNDPYHPDHFNCANCGKELTADARELKGELYCLPCHDKMGVPICGACRRPIEGRVNVAMGK
 QWHVEHFVCAKCEKPFLLGHRHYERKGLAYCETHYNQLFGDVCFHCNRVIEGDVVSALNKAWCVNCFACST
 CNTKLTLLKNKFVEFDMKPVCKKCYEKFPLELKKRLKLAETLGRK

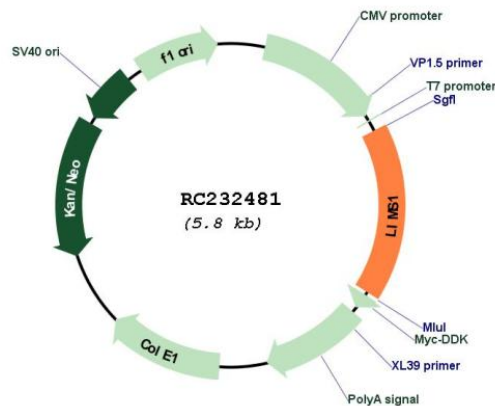
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001193488

ORF Size: 975 bp

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| 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: | <ol style="list-style-type: none">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. |
| RefSeq: | NM_001193488.2 |
| RefSeq Size: | 4407 bp |
| RefSeq ORF: | 978 bp |
| Locus ID: | 3987 |
| UniProt ID: | P48059 |
| Cytogenetics: | 2q12.3 |
| Protein Families: | Druggable Genome |
| MW: | 37.7 kDa |
| Gene Summary: | The protein encoded by this gene is an adaptor protein which contains five LIM domains, or double zinc fingers. The protein is likely involved in integrin signaling through its LIM domain-mediated interaction with integrin-linked kinase, found in focal adhesion plaques. It is also thought to act as a bridge linking integrin-linked kinase to NCK adaptor protein 2, which is involved in growth factor receptor kinase signaling pathways. Its localization to the periphery of spreading cells also suggests that this protein may play a role in integrin-mediated cell adhesion or spreading. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010] |