

## Product datasheet for **RG202765**

### LIMS1 (NM\_004987) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LIMS1 (NM_004987) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LIMS1
Synonyms:	PINCH; PINCH-1; PINCH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202765 representing NM_004987 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAACGCCCTGGCCAGCGCCACTTGCAGCGCTGCAAGGGCGGCTTTGCGCCCGCTGAGAAGATCG  
TGAACAGTAATGGGGAGCTGTACCATGAGCAGTGTTCGTGTGCGCTCAGTGCTCCAGCAGTCCAGAG  
AGGACTCTTCTATGAGTTTGAAGGAAGAAAGTACTGTGAACATGACTTTCAGATGCTCTTGCCCTTGC  
TGTCATCAGTGTGGTGAATTCACCATTGGCCGAGTTATCAAAGCCATGAATAACAGCTGGCATCCGGAGT  
GCTTCCGCTGTGACCTCTGCCAGGAAGTCTGGCAGATATCGGGTTTGTCAAGAATGCTGGGAGACACCT  
GTGTGCGCCCTGTCATAATCGTGAGAAAGCCAGAGGCCTTGGGAAATACATCTGCCAGAAATGCCATGCT  
ATCATCGATGAGCAGCCTCTGATATTCAAGAACGACCCCTACCATCCAGACCATTTCAACTGCGCCAAC  
GCGGGAAGGAGCTGACTGCCGATGCACGGGAGCTGAAAGGGGAGCTATACTGCCTCCCATGCCATGATAA  
AATGGGGTCCCATCTGTGGTCTTGGCCAGCGCCATCGAAGGGCGCGTGGTGAACGCTATGGGCAAG  
CAGTGGCATGTGGAGCATTTTGTGGTGGCAAGTGTGAGAAACCTTTCTTGGACATCGCCATTATGAGA  
GGAAAGCCTGGCATATTGTGAACTCACTATAACCAGCTATTTGGTGTGTTTGGCTTCCACTGCAATCG  
TGTTATAGAAGGTGGTGTGGTCTCTGCTTAAATAAGGCCTGGTGGTGAACCTGCTTTGCCTGTTCTACC  
TGCAACACTAAATTAACACTCAAGAATAAGTTTGTGGAGTTTGACATGAAGCCAGTCTGTGAAGAGTGCT  
ATGAGAAATTTCCATTGGAGCTGAAGAAAAGACTTAAGAACTAGCTGAGACCTTAGGAAGGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202765 representing NM\_004987  
 Red=Cloning site Green=Tags(s)

MANALASATCERCKGGFAPAEEKIVNSNGELYHEQCFVCAQCFQQFPEGLFYEFEGRKYCEHDFQMLFAPC  
 CHQCGEFTIGRVIKAMNNSWHPECFRCDLCQEVLADIGFVKNAGRHLCRPCHNREKARGLGKYICQKCHA  
 IDEQPLIFKNDPYHPDHFNCANCGKELTADARELKGELYCLPCHDKMGVPICGACRRPIEGRVVMAMGK  
 QWHVEHFVCAKCEKPFLLGHRHYERKGLAYCETHYNQLFGDVCFHENRVIIEGGVVSALNKAWCVNCFACST  
 CNTKLTLLKNKFVEFDMKPVCKKCYEKFPLELKKRLKLAETLGRK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004987

**ORF Size:** 975 bp

**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:**

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\\_004987.3](#), [NP\\_004978.2](#)

**RefSeq Size:** 1559 bp

**RefSeq ORF:** 978 bp

**Locus ID:** 3987

**UniProt ID:** [P48059](#)

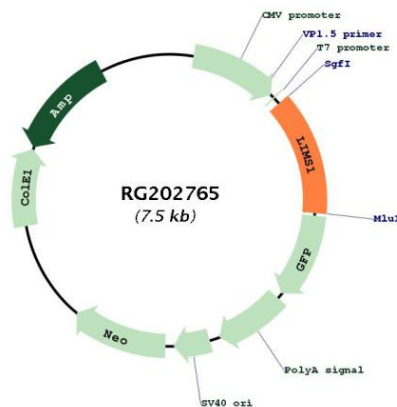
**Cytogenetics:** 2q12.3

**Domains:** LIM

**Protein Families:** Druggable Genome

**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]

### Product images:



Circular map for RG202765