

## Product datasheet for **RC209052**

### LAP3 (NM\_015907) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LAP3 (NM_015907) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LAP3
Synonyms:	HEL-S-106; LAP; LAPEP; PEPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC209052 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTCTTGCTGCCTCTCCGGCTCGGGGCGAGTAGTCGTCGACGCTTGCCGTGAGACGTTTCGGGA  
 GCCGGAGTCTCTCCACCGCAGACATGACGAAGGCCTTGTGTTTAGGAATCTATCCAAAGAAAAAGAAGA  
 TGATGTGCCACAGTTCACAAGTGCAAGGAGAGAATTTTGATAAATTGTTAGCTGGAAGCTGAGAGAGACT  
 TTGAACATATCTGGACCCTCTGAAGGCAGGGAAGACTCGAACCTTTTATGGTCTGCATCAGGACTTCC  
 CCAGCGTGGTGTAGTTGGCCTCGGCAAAAAGGCAGCTGGAATCGACGAACAGGAAAAGCTGGCATGAAGG  
 CAAAGAAAACATCAGAGCTGCTGTTGCAGCGGGTGCAGGCAGATTCAAGACCTGGAGCTCTCGTCTGTG  
 GAGGTGGATCCCTGTGGAGACGCTCAGGCTGCTGCGGAGGGAGCGGTGCTTGGTCTCTATGAATACGATG  
 ACCTAAAGCAAAAAAGAAGATGGCTGTGTCGGCAAAGCTCTATGGAAGTGGGGATCAGGAGCCTGGCA  
 GAAAGGAGTCTGTTTGGCTTCTGGGCAGAACTTGGCACCCAATTGATGGAGACGCCAGCCAATGAGATG  
 ACGCCAACAGATTTGCCGAAATTATTGAGAAGAACTCAAAAAGTCTAGTAGTAAAACCGAGGTCCATA  
 TCAGACCCAAGTCTGGATTGAGGAACAGGCAATGGGATCATTCTCAGTGTGGCCAAAGGATCTGACGA  
 GCCCCAGTCTTCTTGGAAATCACTACAAAGGCAGCCCCAATGCAAACGAACCCCTGGTGTGTTGTT  
 GGGAAAGGAATTACCTTTGACAGTGGTGGTATCTCCATCAAGGCTTCTGCAAATATGGACCTCATGAGGG  
 CTGACATGGGAGGAGCTGCAACTATATGCTCAGCCATCGTGTCTGCTGCAAAGCTTAATTTGCCATTAA  
 TATTATAGGTCTGGCCCTCTTTGTGAAAATATGCCAGCGGCAAGGCCAACAAGCCGGGGGATGTTGTT  
 AGAGCCAAAAACGGGAAGACCATCCAGTTGATAACACTGATGCTGAGGGGAGGCTCATACTGGCTGATG  
 CGCTCTGTTACGCACACACGTTTAACCCGAAGGTCATCCTCAATGCCGCCACCTTAACAGGTGCCATGA  
 TGTAGCTTTGGGATCAGGTGCCACTGGGGTCTTTACCAATTCATCCTGGCTCTGGAACAAAACCTCTCGAG  
 GCCAGCATTGAAACAGGGGACCGTGTCTGGAGGATGCCTCTCTCGAACATTATACAAGACAGGTTGTAG  
 ATTGCCAGCTTGCTGATGTTAACAACATTGAAAAATACAGATCTGCAGGAGCATGTACAGCTGCAGCATT  
 CCTGAAAGAATTCGTAACCTATCCTAAGTGGGCACATTTAGACATAGCAGGCGTGTGACCAACAAAGAT  
 GAAGTTCCTATCTACGGAAAGGCATGACTGGGAGGCCCAAGGACTCTCATTGAGTCTTACTTCGTT  
 TCAGTCAAGACAATGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC209052 protein sequence  
 Red=Cloning site Green=Tags(s)

MFLLPLPAAGRNVVRRRLAVRRFGSRSLSTADMTKGLVLGIYSKEKEDDVPQFTSAGENFDKLLAGKLR  
 LNISGPPLKAGKTRTFYGLHQDFPSVVLVGLGKKAAGIDEQENWHEGKENIRAAVAAGCRQIQDLELSSV  
 EVDPCGDAQAAAEGAVLGLYEYDDLKQKKKMAVSAKLYGSGDQEAQKGVLFASGQNLARQLMETPANEM  
 TPTRFAEIIIEKNLKSASSKTEVHIRPKSWIEEQAMGSFLSVAKGSDEPPVFLEIHYKSPNANEPPLV  
 GKGITFDSSGGISIKASANMDLMRADMGAATICSIVSAAKLNLPINIIGLAPLCENMPSGKANKPGD  
 VVRAKNGKTIQVDNTDAEGRLLADALCYAHTFNPKVILNAATLTGAMDVALGSGATGVFTNSSWLW  
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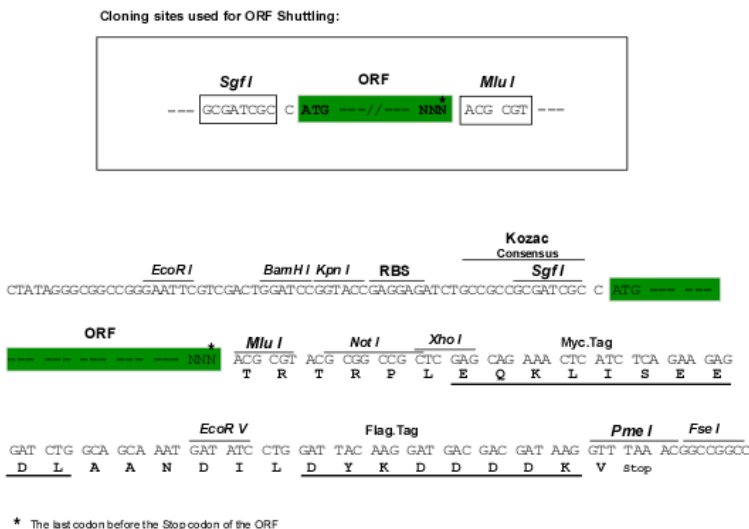
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6147\\_f03.zip](https://cdn.origene.com/chromatograms/mk6147_f03.zip)

**Restriction Sites:**

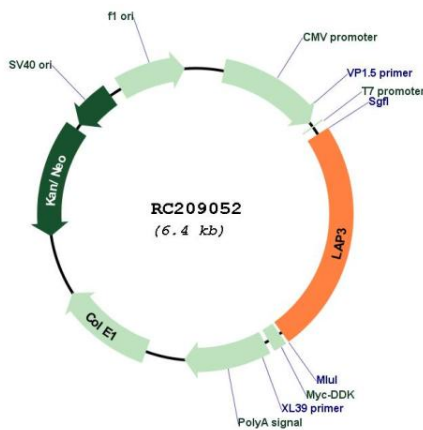
Sgfl-MluI

**Cloning Scheme:**


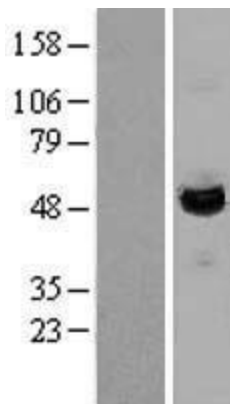
- ACCN:** NM\_015907
- ORF Size:** 1557 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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.
- Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
- RefSeq:** [NM\\_015907.2](#), [NP\\_056991.2](#)
- RefSeq Size:** 2100 bp
- RefSeq ORF:** 1560 bp
- Locus ID:** 51056

**UniProt ID:** [P28838](#)  
**Cytogenetics:** 4p15.32  
**Domains:** Peptidase\_M17  
**Protein Families:** Druggable Genome, Protease  
**Protein Pathways:** Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways  
**MW:** 56.2 kDa  
**Gene Summary:** Presumably involved in the processing and regular turnover of intracellular proteins. Catalyzes the removal of unsubstituted N-terminal amino acids from various peptides. [UniProtKB/Swiss-Prot Function]

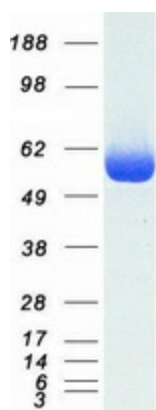
**Product images:**



Circular map for RC209052



Western blot validation of overexpression lysate (Cat# [LY402470]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209052 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LAP3 protein (Cat# [TP309052]). The protein was produced from HEK293T cells transfected with LAP3 cDNA clone (Cat# RC209052) using MegaTran 2.0 (Cat# [TT210002]).