

Product datasheet for **RG209052**

LAP3 (NM_015907) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAP3 (NM_015907) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LAP3
Synonyms:	HEL-S-106; LAP; LAPEP; PEPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209052 representing NM_015907
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCTTGCTGCCTCTCCGGCTGCGGGGCGAGTAGTCGTCGACGCTTGCCGTGAGACGTTTCGGGA
 GCCGGAGTCTCTCCACCGCAGACATGACGAAGGCCTTGTTTAGGAATCTATCCAAAGAAAAAGAAGA
 TGATGTGCCACAGTTCACAAGTGCAAGGAGAGAATTTTGATAAATTGTTAGCTGGAAGCTGAGAGAGACT
 TTGAACATATCTGGACCCTCTGAAGGCAGGGAAGACTCGAACCTTTTATGGTCTGCATCAGGACTTCC
 CCAGCGTGGTGTAGTTGGCCTCGGCAAAAAGGCAGCTGGAATCGACGAACAGGAAAAGCTGGCATGAAGG
 CAAAGAAAACATCAGAGCTGCTGTTGCAGCGGGTGCAGGCAGATTCAAGACCTGGAGCTCTCGTCTGTG
 GAGGTGGATCCCTGTGGAGACGCTCAGGCTGCTGCGGAGGGAGCGGTGCTTGGTCTCTATGAATACGATG
 ACCTAAAGCAAAAAAGAAGATGGCTGTGTCGGCAAAGCTCTATGGAAGTGGGGATCAGGAGCCTGGCA
 GAAAGGAGTCTGTTTGGCTTCTGGGCAGAACTTGGCACGCCAATTGATGGAGACGCCAGCCAATGAGATG
 ACGCCAACAGATTTGCCGAAATTATTGAGAAGAATCTCAAAAAGTCTAGTAGTAAAACCGAGGTCCATA
 TCAGACCCAAGTCTTGGATTGAGGAACAGGCAATGGGATCATTCTCAGTGTGGCCAAAGGATCTGACGA
 GCCCCAGTCTTCTTGGAAATCACTACAAAGGCAGCCCAATGCAAACGAACCCCTGGTGTGTTGTT
 GGGAAAGGAATTACCTTTGACAGTGGTGGTATCTCCATCAAGGCTTCTGCAAATATGGACCTCATGAGGG
 CTGACATGGGAGGAGCTGCAACTATATGCTCAGCCATCGTGTCTGCTGCAAAGCTTAATTTGCCATTAA
 TATTATAGGTCTGGCCCTCTTTGTGAAAATATGCCAGCGGCAAGGCCAACAGCCGGGGGATGTTGTT
 AGAGCCAAAAACGGGAAGACCATCCAGTTGATAACACTGATGCTGAGGGGAGGCTCATACTGGCTGATG
 CGCTCTGTTACGCACACACGTTTAAACCGAAGGTCACTCCTCAATGCCGCCACCTAACAGGTGCCATGGA
 TGTAGCTTTGGGATCAGGTGCCACTGGGTCTTTACCAATTCATCCTGGCTCTGGAACAAACTCTTCGAG
 GCCAGCATTGAAACAGGGGACCGTGTCTGGAGGATGCCTCTCTCGAACATTATACAAGACAGGTTGTAG
 ATTGCCAGCTTGCTGATGTTAACAACATTGAAAAATACAGATCTGCAGGAGCATGTACAGCTGCAGCATT
 CCTGAAAGAATTCGTAACCTATCCTAAGTGGGCACATTTAGACATAGCAGGCGTGTGACCAACAAAGAT
 GAAGTTCCTATCTACGGAAAGGCATGACTGGGAGGCCCAAGGACTCTCATTGAGTCTTACTTCGTT
 TCAGTCAAGACAATGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209052 representing NM_015907
 Red=Cloning site Green=Tags(s)

MFLLLPLPAAGRVRVRRLLAVRRFGSRSLSTADMTKGLVLGIYSKEKEDDVPQFTSAGENFDKLLAGKLR
 LNI SGPPLKAGKTRTFYGLHQDFPSVVLVGLGKKAAGIDEQENWHEGKENIRAAVAAGCRQIQDLELSSV
 EVDPCGDAQAAAEGAVLGLYEYDDLKQKKMAVSAKLYGSGDQEAQWQGVLFASGQNLARQLMETPANEM
 TPTRFAEIIIEKNLKSASSKTEVHIRPKSWIEEQAMGSFLSVAKGSDEPPVFLEIHYKGSPLANEPPLV
 GKGITFDSSGGSIKASANMDLMRADMGGAATICS AIVSAAKLNLPINIIGLAPLCENMPSGKANKPGD
 VV RAKNGKTIQVDNTDAEGRLILADALCYAHTFNPKVILNAATLTGAMDVALGSGATGVFTNSSWLWNL
 KLF E ASIETGDRVWRMPLFEHYTRQVVDCQLADVNNIGKYRSAGACTAAAFLEFVTHPKWAHLDIAGV
 MTNKD E VPYLRKGMTGRPTRLIEFLLRFSQDNA

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_015907.2](#), [NP_056991.2](#)

RefSeq Size: 2100 bp

RefSeq ORF: 1560 bp

Locus ID: 51056

UniProt ID: [P28838](#)

Cytogenetics: 4p15.32

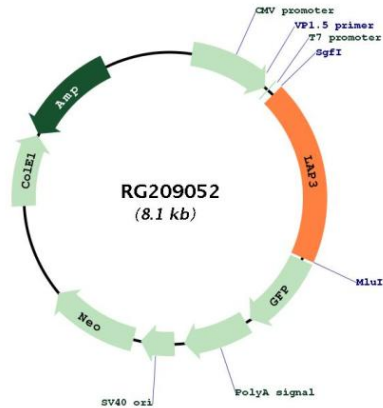
Domains: Peptidase_M17

Protein Families: Druggable Genome, Protease

Protein Pathways: Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways

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 RG209052