

Product datasheet for **RR209533**

Lurap1 (NM_001109263) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lurap1 (NM_001109263) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lurap1
Synonyms:	LRAP35a; Lrp35a; RGD1566001
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209533 representing NM_001109263 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGGGACCGCGGAGTCCCAGACGCCTGACTTACGAGACGTGGAGGGCAAGGTGGGCAGGAAGACCC
 CCGAAGGACTGCTCCGCGGGCTCCGAGGCGAGTGCATCTGGGAACCTCTGGGGATGTGCTGCTCCCGG
 GGCTTCCAGCACTGGCCACGGCCTAGGGGACAAGATCATGGCGCTGAGGATGGAGCTGGCTTACCTGCGA
 GCCATCGATGTGAAGATTCTGCAGCAGCTGGTGACCTTGAATGAGGGAATTGAGGCAGTGCCTGGCTGC
 TGGAGGAGCGGGGACACTGACCAGCCATTGCAGCAGTCTCACCAGCAGTCAGTATAGTCTGACAGGGGG
 AAGCCCAGAACGCTCAAGGCGGGGCAAGTGGGACAGCCTGCCAGATACCAGTTCAACTGACCGGCTGGAC
 AGTGTCTCTATTGGCAGCTTCTTGGACACGGTGGCCCCAGAGAGCTGGATGAACAAGGACACCTGGGC
 CTTCTGTCTGAGATTGACTGGGCAAAGGTTATACCCAGTGAGGACAGGGCCAGGACTGAGGTGGACAT
 GACATCCACCAAGCTAGGGAGCCTAACAGCTACATGGAACTTCCAGGGGACGGGCTCCAATGTGGACCA
 CCTGAGCCATCAGAAGATGACAGTGCTAAGCAGGGCTTTGAGGCTCATTGGTACTGGGGACAGTGCCAGG
 ATGATGTGACCTTCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR209533 representing NM_001109263

Red=Cloning site Green=Tags(s)

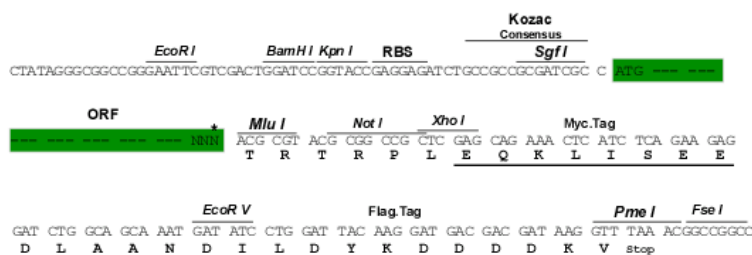
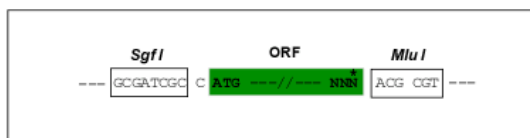
MEGTAESQTPDLRDVEGKVGKRKTPGELLRLRGECDLGTSGDVLPLPASSTGHGLGDKIMALRMELAYLR
AIDVKILQQLVTLNEGIEAVRWLLEERGTLTSHCSSLTSSQYSLTGGSPERSRRGSWDSLPTDSTSDRLD
SVSIGSFLDTVAPRELDQGHGPGSCPEIDWAKVIPSEDRARTVDMTSTKLGLSLTATWKLPGDGLQCGP
PEPSEDDSAKOGFEAHWYGOCODDVTFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001109263

ORF Size: 717 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_001109263.1](#), [NP_001102733.1](#)

RefSeq Size: 1408 bp

RefSeq ORF: 720 bp

Locus ID: 500527

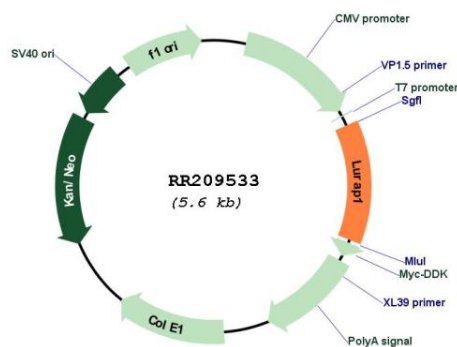
UniProt ID: [D4A8G3](#)

Cytogenetics: 5q35

MW: 25.9 kDa

Gene Summary: Acts as an activator of the canonical NF-kappa-B pathway and drive the production of proinflammatory cytokines. Promotes the antigen (Ag)-presenting and priming function of dendritic cells via the canonical NF-kappa-B pathway (By similarity). In concert with MYO18A and CDC42BPA/CDC42BPB, is involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and migration. Activates CDC42BPA/CDC42BPB and targets it to actomyosin through its interaction with MYO18A, leading to MYL9/MLC2 phosphorylation and MYH9/MYH10-dependent actomyosin assembly in the lamella.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR209533