

## Product datasheet for **RC222994**

### LARP7 (NM\_015454) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LARP7 (NM_015454) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LARP7
Synonyms:	ALAZS; HDCMA18P; hLARP7; PIP7S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222994 representing NM\_015454  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAACTGAAAGTGGAAATCAGGAAAAGGTAATGGAAGAAGAAAGCACTGAAAAGAAAAAGAAGTTG  
 AAAAAAGAAACGGTCACGAGTTAACAGGTGCTTGCAGATATTGCTAAGCAAGTGGACTTCTGGTTTGG  
 GGATGCAAAATCTTCACAAGGATAGATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGGATATGTTGAT  
 ATACTACTTGTGTCTTTTAAACAAAATGAAAAAATTGACTACTGATGGGAAGTTAATTGCCAGAGCAT  
 TGAGAAGTTCAGCTGTTGTAGAGCTTGTATTTGGAAGGCACCAGAATCCGGAGGAAAAACCTCTGGGGGA  
 AAGACCAAGGATGAGGATGAACGCACAGTGTATGTGGAGTACTTCCCAAAAATGTTAATCACAGCTGG  
 ATTGAAAGAGTATTTGGGAAATGTGGCAATGTTGTTTATATAAGTATACACATTATAAGTCTACTGGAG  
 ATCCAAAGGGATTTGCGTTTGTGGAATTTGAAACAAAAGAACAAGCAGCAAAAAGCAATTGAGTTTCTTAA  
 CAACCCACCAGAAGAAGCACCAAGAAAACCTGGCATAATTCCTAAAACAGTGAAAAATAAGCCATTCCA  
 GCCTTAAGAGTTGTGGAAGAGAAGAAAAAGAAAAAGAAGAAAGGCGCAATGAAAAAGGAAGACAATA  
 TCCAAGCCAAAGAAGAAAACATGGACACAAAGCAACACCAGCATCAGTAAAATGAAAAATCCAGACCCAC  
 ATCTGAGGGCTCTGACATTGAGTCCACTGAACCCAAAAGCAGTGCTCAAAGAAAAAGAAAAACGGGAC  
 AGAGTTGAAGCATCTAGCTTACCTGAAGTCAGAACAGGGAAGAGGAAGAGAAGCAGCTCTGAAGATGCAG  
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 TCTCTCTTGAAAAACAAAAGGAAACATAAGAAAAACATAAAGAGAGACATAAAATGGGAGAAGAAGTTA  
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 ACAGAATGCCATGCTAGATTTAAAACCTCTGAGGATGCTCAAGCAGTAATAAATGCCTATACAGAAATTA  
 ACAAGAAACACTGCTGAAAACCTGAGATCCTTTCTGGTGATCACGAACAAAGGATTGGCAGAAGATTTT  
 GGTGATAGACAGGCAAACTTAATCAGCCTCGGAAAAGAAAAGAGGCACTGAAAAGTTAATCACCAA  
 GCTGAAAAGATTAGACTGGCAAAGACTCAACAAGCGAGTAAACATATAAGATTTTCTGAATATGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222994 representing NM\_015454  
 Red=Cloning site Green=Tags(s)

METESGNQEKVMEEESTEKKKEVEKKRSRVKQVLADIAKQVDFWFGDANLHKDRFLREQIEKSRDGYVD  
 ISLLVSFNKMKKLTDDGKLIARALRSSAVVELDLEGTRIRRKPLGERPKDEDERTVYVELLPKNVNSW  
 IERVFGKCGNVVYISIPHYKSTGDPKGF AFVEFETKEAQAIEFLNPPPEEAPRKP GIPKTVKNKPIP  
 ALRVVEEKKKKKKGRMKKEDNIQAKEENMDSNTSISKMKRSRPTSEGSDIESTEPQKQCSKKKKKRD  
 RVEASSLPEVRTGKRKRSSSEDAESLAPRSKVKKIIQKDIKEASEASKENRDIEISTEEKDTGDLKDS  
 SLLKTRKHKKHKKRHKMGEEVIPLRVL SKSEWMDLKKKEYLALQKASMASLKKTSIQIKSESEMETDSG  
 VPQNTGMKNEKTANREECRTQEKVNATGPQFVSGVIVKII STEPLPGRKQVRDTLAAISEVLVYDLEGD  
 TECHARFKTPEDAQAVINAYTEINKKHCKWLEILSGDHEQRYWQKILVDRQAKLNQPREKKRGTEKLITK  
 AEKIRLAKTQQASKHIRFSEYD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6545\\_d07.zip](https://cdn.origene.com/chromatograms/mk6545_d07.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_015454

**ORF Size:** 1746 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\\_015454.2](#), [NP\\_056269.1](#)

**RefSeq Size:** 2175 bp

**RefSeq ORF:** 1749 bp

**Locus ID:** 51574

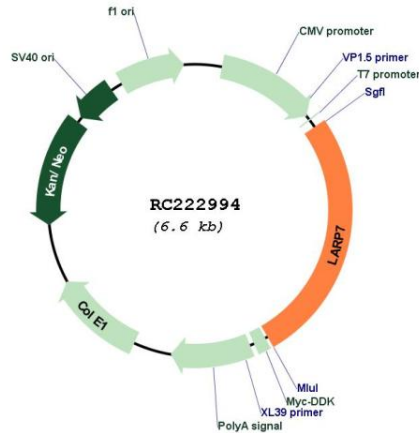
**UniProt ID:** [Q4G0J3](#)

**Cytogenetics:** 4q25

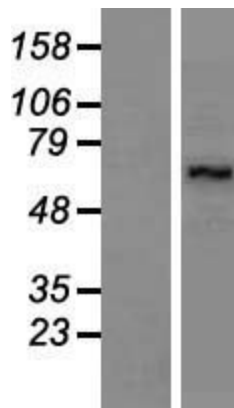
**MW:** 66.7 kDa

**Gene Summary:** This gene encodes a protein which is found in the 7SK snRNP (small nuclear ribonucleoprotein). This snRNP complex inhibits a cyclin-dependent kinase, positive transcription elongation factor b, which is required for paused RNA polymerase II at a promoter to begin transcription elongation. A pseudogene of this gene is located on chromosome 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2012]

**Product images:**



Circular map for RC222994



Western blot validation of overexpression lysate (Cat# [LY414535]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222994 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).