

## Product datasheet for **RC230093**

### LARP4 (NM\_001170804) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LARP4 (NM_001170804) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LARP4
Synonyms:	PP13296
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC230093 representing NM\_001170804  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGCTTTTCGTGAGCAGGTAGCATCTAAAGGAAGTGGTTTAAATCCTAATGCCAAAGTATGGCAAG  
 AAATTGCTCCTGGAAATACTGATGCCACCCAGTAACTCATGGAAGTAAAGCTCTTGGCATGAAATAGC  
 AGCTACATCAGGTGCTCATCCTGAGGGTAAATGCAGAGCTCTCAGAAGATATATGTAAGAATATGAAGTA  
 ATGATTCTTCATCTTGTGAAACCACAAGAAATACTACAGGCATTGAAGAATCAACTGATGGGATGATTT  
 TAGGACCAGAAGATCTGAGTTACCAATATATGATGTTTCCGGAGAAAGCAATTCAGCAGTTTCTACAGA  
 AGACCTAAAAGAATGTCTGAAGAAACAATTAGAATTCTGTTTTTCCAGAGAAAATTTGTCAAAGGATCTT  
 TACTTGATATCTCAAATGGATAGTGATCAGTTCATCCCAATTTGGACAGTTGCCAACATGGAAGAAATAA  
 AAAAGTTGACTACAGACCCTGATCTAATCTTGAAGTGTAAAGATCTTCCCATGGTACAAGTTGATGA  
 GAAGGGTGAGAAAGTGAGACCAAGTCATAAGCGTTGTATTGTAATTCTTAGAGAGATTCTGAAACAACA  
 CCAATAGAGGAAGTGAAAGGTTTGTTCAAAAGTAAAAGTGCCTCCAAAGTGATAAGCTGTGAGTTTGCAC  
 ACAATAGCAACTGGTATATCACTTTCCAGTCAGACACAGATGCACAACAGGCTTTTAAATCTTAAGAGA  
 AGAAGTAAAAACATTTACGGGCAAGCCAATTATGGCAAGGATAAAAGCCATCAATACATTTTTTGCTAAG  
 AATGGTTATCGATTAATGGATTCTAGTATCTATAGTCACCCCAATTCAAACTCAAGCACAGTATGCCTCCC  
 CAGTCTTTATGCAGCCTGTATATAATCCTCACCAACAGTACTCGGTCTATAGTATTGTGCCTCAGTCTTG  
 GTCTCAAATCCTACACCTTACTTTGAAACACCACTGGCTCCCTTTCCAATGGTAGTTTTGTGAATGGC  
 TTTAATTCGCCAGGATCTTATAAAACAATGCTGCTGCTATGAATATGGGTCGACCATTCAAAAAATC  
 GTGTGAAGCCTCAGTTTAGGTCATCTGGTGGTTCAGAACACTCAACAGAGGGCTCTGTATCTTTGGGGGA  
 TGGACAGTTGAACAGATATAGTTCAAGAACTTTCCAGCTGAACGCATTAACCCACAGTAACTGGGCAT  
 CAGGAGCAAACCTTACCTTCAAGGAGACTTCCACTTTGCAGGTGGAACAGAATGGGGACTATGGTAGGG  
 GCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230093 representing NM\_001170804  
 Red=Cloning site Green=Tags(s)

MLLFVEQVASKGTGLNPNKVVQEIAPGNDDATPVTHGTESSWHEIAATSGAHPEGNAELSEDICKEYEV  
 MYSSSCETTRNTTGIEESTDGMILGPEDLSYQIYDVSGESNSAVSTEDLKECLKQLEFCFSRENLSKDL  
 YLISQMSDQFIPITVANMEEIKKLTDPDLILEVLRSSPMVQVDEKGEKVRPSHKRCIVILREIPETT  
 PIEEVKGLFKSENCPKVISCEFAHNSNWYITFQSDTAQQAQAFKYLREEVKTFFQKPIIMARIKAIINTFFAK  
 NGYRLMDSIIYSHPIQTQAQYASPVFMQPVYNPHQQYSVYSIVPQSWSPNTPYFETPLAPFPNGSFVNG  
 FNSPGSYKTNAAMNMRPFQKNRVKQFRSSGGSEHSTEGSVSLGDGQLNRYSSRNFP AERHNPTVTGH  
 QEQTYLQKETSTLQVEQNGDYGRGR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

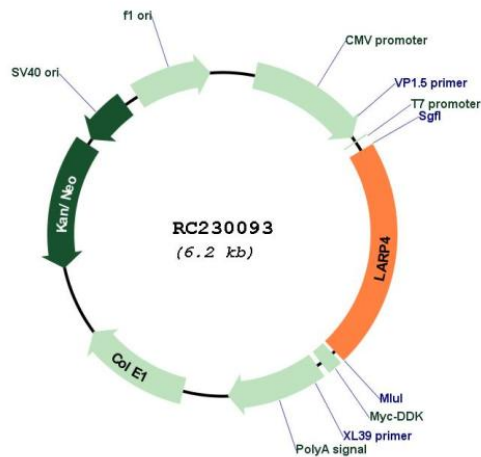
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001170804

ORF Size: 1335 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\\_001170804.1](#), [NP\\_001164275.1](#)

**RefSeq Size:** 1681 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 113251

**Cytogenetics:** 12q13.12

**Protein Families:** Transcription Factors

**MW:** 50 kDa

**Gene Summary:** RNA binding protein that binds to the poly-A tract of mRNA molecules (PubMed:21098120). Associates with the 40S ribosomal subunit and with polysomes (PubMed:21098120). Plays a role in the regulation of mRNA translation (PubMed:21098120). Plays a role in the regulation of cell morphology and cytoskeletal organization (PubMed:21834987, PubMed:27615744). [UniProtKB/Swiss-Prot Function]