

Product datasheet for **RG209809**

LARP7 (NM_016648) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LARP7 (NM_016648) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LARP7
Synonyms:	ALAZS; HDCMA18P; hLARP7; PIP7S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209809 representing NM_016648
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAACCTGAAAGTGGAAATCAGGAAAAGGTAATGGAAGAAGAAAGCACTGAAAAGAAAAAGAAGTTG
 AAAAAAGAAACGGTCACGAGTTAACAGGTGCTTGCAGATATTGCTAAGCAAGTGGACTTCTGGTTTGG
 GGATGCAAAATCTTCACAAGGATAGATTTCTTCGAGAACAGATAGAAAAATCTAGAGATGGATATGTTGAT
 ATACTACTTGTGTCTTTTAAACAAAATGAAAAAATTGACTACTGATGGGAAGTTAATTGCCAGAGCGT
 TGAGAAGTTCAGCTGTTGTAGAGCTTGTATTTGGAAGGCACCAGAATCCGGAGGAAAAACCTCTGGGGGA
 AAGACCAAGGATGAGGATGAACGCACAGTGTATGTGGAGTACTTCCAAAAATGTTAATCACAGCTGG
 ATTGAAAGAGTATTTGGGAAATGTGGCAATGTTGTTTATATAAGTATACCAATTATAAGTCTACTGGAG
 ATCCAAAGGGATTTGCGTTTGTGGAATTTGAAACAAAAGAACAAGCAGCAAAAGCAATTGAGTTTCTTAA
 CAACCCACCAGAAGAAGCACCAAGAAAACCTGGCATAATTCCTAAAACAGTGAAAAATAAGCCATTCCA
 GCCTTAAGAGTTGTGGAAGAGAAGAAAAAGAAAAAGAAGAAAGGCGCAATGAAAAAGGAAGACAATA
 TCCAAGCCAAAGAAGAAAACATGGACACAAGCAACACCAGCATCAGTAAAATGAAAAATCCAGACCCAC
 ATCTGAGGGCTCTGACATTGAGTCCACTGAACCCAAAAGCAGTGCTCAAAGAAAAAGAAAAACGGGAC
 AGAGTTGAAGCATCTAGCTTACCTGAAGTCAGAACAGGGAAGAGGAAGAGAAGCAGCTCTGAAGATGCAG
 AATCCCTAGCTCCCGATCAAAAGTAAAGAAAATTATTCAGAAAGACATCATTAAAGGAAGCATCAGAAGC
 TTCCAAGGAAAATAGAGATATAGAAATCTACTGAAGAGGAAAAGGATACTGGAGATCTAAAAGATAGC
 TCTCTCTTGAAAAACAAAAGGAAACATAAGAAAAACATAAAGAGAGACATAAAATGGGAGAAGAAGTTA
 TACCATTAAGAGTGCTATCAAAGAGCGAATGGATGGATTTGAAAAAGAGTATTTAGCGCTACAAAAAGC
 TAGCATGGCTTCTTTAAAAAAAACAATATCCCAAATAAAATCAGAGTCAGAAATGGAAACAGACAGTGGA
 GTACCTCAAAACTGGAATGAAAAATGAAAAACAGCCAACAGGGAAGAGTGTCGCACCCAGGAGAAAAG
 TTAATGCAACAGGACCACAGTTCGTGAGTGGAGTGATTGTGAAGATCATTAGCACAGAGCCTCTACCTGG
 CAGGAAACAAGTCCGGGATACTTTGGCAGCAATCTCAGAAGTCTTTATGTTGATTTGCTAGAAGGGGAT
 ACAGAATGCCATGCTAGATTTAAACTCCTGAGGATGCTCAAGCAGTAATAAATGCCTATACAGAAATTA
 ACAAGAAACTGCTGGAACCTCGAGATCCTTTCTGGTGATCACGAACAAAGGATTGGCAGAAGATTTT
 GGTGATAGACAGGCAAACTTAATCAGCCTCGGGAAGAAAAAGAGGCACTGAAAAGTTAATCACCAA
 GCTGAAAAGATTAGGCTGCAAAAGACTCAACAAGCGAGTAAACATATAAGATTTTCTGAATATGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209809 representing NM_016648
 Red=Cloning site Green=Tags(s)

METESGNQEKVMEEESTEKKKEVEKKRSRVKQVLADIAKQVDFWFGDANLHKDRFLREQIEKSRDGYVD
 ISLLVSFNKMKKLTDDGKLIARALRSSAVVELDLEGTRIRRKPLGERPKDEDERTVYVELLPKNVNHWS
 IERVFGKCGNVVYISIPHYKSTGDPKGFVFEFETKEQAQAKAIEFLNPPPEEAPRKPGIFPKTVKKNKPIP
 ALRVVEEKKKKKKKGRMKKEDNIQAKEENMDTSNTSISKMKRSRPTSEGSDIESTEPQKQCSKKKKKRD
 RVEASSLPEVRTGKRKRSSSEDAESLAPRSKVKKIIQKDIKEASEASKENRDIEISTEEKDTGDLKDS
 SLLKTKRKHKKHKKERHKMGEEVIPLRVLKSEWMDLKKEYLALQKASMASLKKTSIQIKSESEMETS
 VPQNTGMKNEKTANREECRTQEKVNATGPQFVSGVIVKIISTEPLPGRKQVRDTLAAISEVLVYDLEGD
 TECHARFKTPEDAQAVINAYTEINKKHCWKLEILSGDHEQRYWQKILVDRQAKLNQPREKKRGTEKLITK
 AEKIRLAKTQQASKHIRFSEYD

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_016648

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016648.2](#), [NP_057732.2](#)

RefSeq Size: 2303 bp

RefSeq ORF: 1749 bp

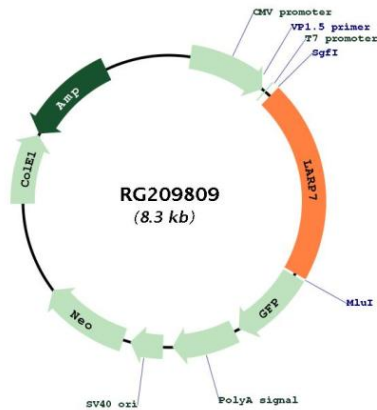
Locus ID: 51574

UniProt ID: [Q4G0J3](#)

Cytogenetics: 4q25

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 RG209809