

Product datasheet for RC224621

LHX9 (NM_020204) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHX9 (NM_020204) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LHX9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224621 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAATAGTGGGGTGCCGAGCAGAAGACAACCTCGTGTCTTTCCGCCCCCAGCCATGCTCTTTCACG
 GGATCTCCGGAGGCCACATCCAAGGCATCATGGAGGAGATGGAGCGCAGATCCAAGACTGAGGCCCGTCT
 GGCCAAAGGCGCCAGCTCAACGGCCGCGACGCGGGCATGCCCGCGCTCAGCCCGGAGAAGCCCGCCCTG
 TCGCGCGGCTGCGGGGCAAGATCTCGGACAGGTACTATCTGCTGGCTGTGGACAAACAGTGGCATCTGA
 GATGCCGAAGTGCTGTGAATGTAAGCTGGCCCTCGAGTCCGAGCTCACCTGCTTTGCCAAGGACGGTAG
 CATTTACTGCAAGGAGGATTACTACAGAAGGTTCTCTGTGCAGAGATGTGCCCGCTGCCACCTTGGCATT
 TCCGCCTCGGAGATGGTCATGCGCGCCCGAGACTCTGTCTACCACCTGAGCTGCTTCACCTGCTCCACTT
 GCAACAAGACTCTGACCACGGGCGACCATTTCCGCATGAAGGACAGCCTGGTGTACTGCCGCGCCCACTT
 CGAGACCCTCTTGCAAGGAGAGTATCCACCGCAGCTGAGCTACACGGAGCTGGCGCCAAGAGCGGCGGC
 CTGGCCCTGCCTTACTTCAACGGTACGGGCACCGTGCAGAAAGGCGGCCCGGAAGCGGAAGAGCCAG
 CGCTGGGAGTGGACATCGTCAATTACAACCTCAGGTTGTAATGAGAATGAGGCAGACCACTTGACCGGGA
 CCAGCAGCCTTATCCACCCTCGCAGAAGACCAAGCGCATGCGAACCTCTTTCAAGCATCACCAGCTCCGG
 ACCATGAAATCCTACTTTGCCATCAACCACAACCCGGATGCCAAGGACCTCAAGCAGCTTGCCAGAAAA
 CAGGTCTGACCAAAAGAGTTTTGCAGGTTTGTTCCAAAACGCACGAGCCAAATTCAGAAGGAACCTTTT
 GCGGCAGGAGAATGGGGTGTTGATAAAGCTGACGGCACGTGCTTCCGCCCCCGCCCTCAGCAGACAGC
 GGAGCTCTCACTCCACCCGGCACTGCGACCACTTAAACAGACCTGACCAATCCCACTATCACTGTAGTGA
 CATCCGTGACCTTAACATGGACAGCCAGGAATCCGGAAGCCCTCACAACTACCTTAACAAACCTTTT
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC224621 protein sequence
 Red=Cloning site Green=Tags(s)

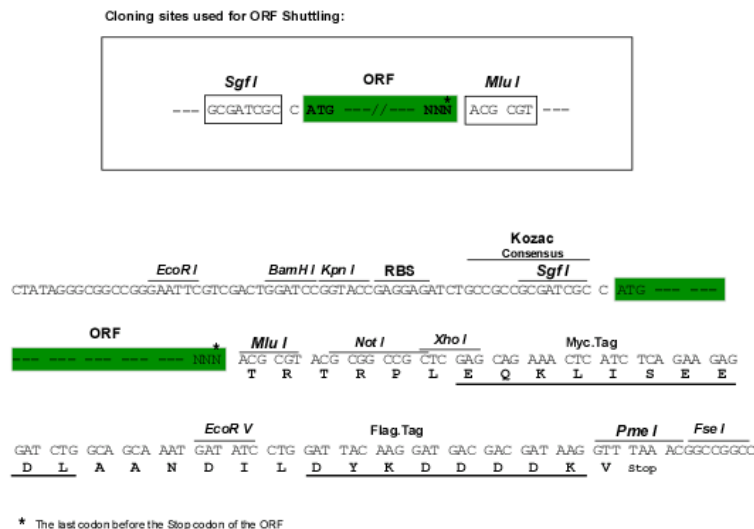
MEIVGCRAEDNSCFRPPAMLFHGISGGHIQGIMEEMERRSKTEARLAKGAQLNGRDAGMPPLSPEKPAL
 CAGCGGKISDRYLLAVDKQWHLRCLKCCECKLALAESELTCAKDGSIYCKEDYYRRFSVQRCARCHLGI
 SASEMVMRARDSVYHLSCFTCSTCNKTLTTGDHFGMKDSLVCRAHFETLLQGEYPPQLSYTELAAKSGG
 LALPYFNGTGTQVQGRPRKRKSPALGVDIVNYSNGCNEADHLDRDQQPYPPSQKTKRMRTSFKHHQLR
 TMKSYFAINHNPDAKDLKQLAQKTGLTKRVLQVWFQNAKAKFRNLLRQENGVDKADGTSLPAPPSADS
 GALTPPGTATTLDLTNPTITVTVSVTSNMDSHESGSPSQTTLTNLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6452_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020204

ORF Size: 1191 bp

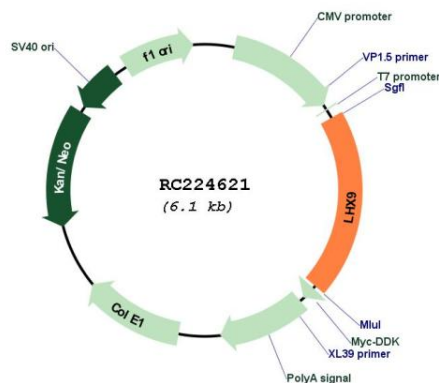
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

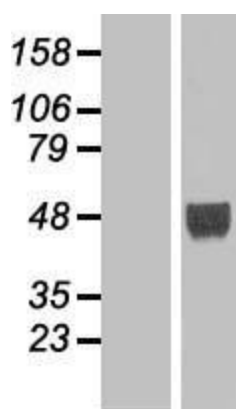
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_020204.3</u>
RefSeq Size:	2515 bp
RefSeq ORF:	1194 bp
Locus ID:	56956
UniProt ID:	<u>Q9NQ69</u>
Cytogenetics:	1q31.3
Protein Families:	Druggable Genome, Transcription Factors
MW:	44 kDa
Gene Summary:	This gene encodes a member of the LIM homeobox gene family of developmentally expressed transcription factors. The encoded protein contains a homeodomain and two cysteine-rich zinc-binding LIM domains involved in protein-protein interactions. The protein is highly similar to a mouse protein that causes gonadal agenesis when inactivated, suggesting a role in gonadal development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224621



Western blot validation of overexpression lysate (Cat# [LY412590]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224621 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).