

Product datasheet for **RR207912**

Lhx2 (NM_001106571) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lhx2 (NM_001106571) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lhx2
Synonyms:	Lh-2; LH2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR207912 representing NM_001106571 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTCCACAGTCTGTCTGGGCCCGAGGTGCACGGGGTTCATCGACGAGATGGACCGCAGGGCCAAGA
GCGAGGCTCCGGCCATCAGCTCCGCCATCGACCGCGGACACGGAGACGACCATGCCGTCCATCAGCAG
TGACCGGGCAGCGTTGTGTCTGGGCTGTGGGGCAAGATCTCTGACCGCTACTATTTGCTGGCAGTAGAC
AAACAATGGCACATGCGTTGCCCAAGTGTGAATGCAAGCTCAACCTGGAGTCGGAACCTCACCTGCT
TCAGCAAGGATGGCAGCATCTACTGCAAAGAAGACTACTACAGGGGTTCTCTGTGCAGCGCTGCGCCCG
CTGCCACCTGGGCATCTCGGCCTCAGAGATGGTGTGCTGCTGCGGACTTGGTTTATCACCTCAACTGC
TTCACATGCACCACGTGTAACAAGATGCTGACGACCGGCGACCACTTCGGCATGAAGGACAGCCTGGTCT
ATTGCCGCTTGCACCTTCGAGGCACTGCTGCAAGGCGAATACCCGGCACACTTTAACCATGCCGACGTGGC
AGCGGGCGGAGCGGCGAGCCGAGCAGCTAAGAGTGCAGGATTGGGCTCAGCTGGGGCTAACCCGCTGGGT
CTTCCCTACTACAACGGCGTGGGCACTGTGCAGAAGGGGAGGCCGAGAAAGCGCAAAAGTCCAGGACCCG
GGCAGATCTGGCAGCCTACAACGCCGCGCTGAGCTGTAACGAGAACGACGCGGAACACCTGGATCGCGA
CCAGCCCTACCCTAGCAGCCAAAAGACAAAGCGCATGCGCACCTCCTTCAAGCACCACAGCTTCGGACA
ATGAAGTCTTACTTTGCCATTAACCACAATCCCAGTCCCAAGACTTGAAGCAGCTCGCGCAAAAGACCG
GCCTCACCAAGAGAGTCCTCCAGGTCTGGTTTCAGAATGCCCGGGCCAAGTTTCAGGCGCAACCTTTTACG
GCAGGAAAACACTGGTGTGGACAAGACTTCGGATGCCACGCTGCAGACAGGGACACCGTCAAGGGCCCGC
TCGGAGCTGTCCAACGCCTCGCTCAGCCCTCCAGCACTCCTACAACCCTCACAGACTTGACTAGCCCCA
CCCTGCCGACTGTGACGTGAGTCTTAACCTCTGTGCTGGCAACCTGGAGGGCCATGAGCCCCACAGCCC
TTCACAAACGACTCTTACCAACCTTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207912 representing NM_001106571
Red=Cloning site Green=Tags(s)

MLFHSLSGPEVHGVIDEMDRRAKSEAPAISSAIDRGDTEETMPSISSDRAALCAGCGGKISDRYYLLAVD
 KQWHMRLKCCECKLNLESELTCFSKDGSIYCKEDYRRFVSVQRCARHLGISASEMVMRARDLVYHLNC
 FTCTTCNKMLTTGDHFGMKDSLVCRLHFEALLQGEYPAHFNHADVAIAAAAAAAAAAKSAGLGSAGANPLG
 LPYYNGVGTVQKGRPRKRKSPGPGADLAAYNAALSCNENDAHLDRDQYPSSQKTKRMRTSFKHHQLRT
 MKSYFAINHNPDADLKLQLAQKTGLTKRVLQVWFQNAKAKFRRNLLRQENTGVDKTSDATLQGTGTPSGPA
 SELSNASLSPSSTPTTLTDLTSPPLPTVTVSVLTSVPGNLEGHEPHSPSQTTLTNLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3114_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001106571

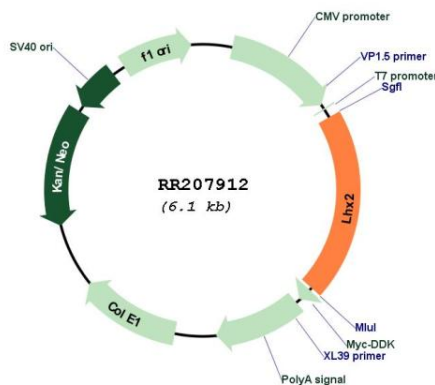
ORF Size: 1218 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_001106571.1, NP_001100041.1</u>
RefSeq Size:	1903 bp
RefSeq ORF:	1221 bp
Locus ID:	296706
Cytogenetics:	3q12
MW:	44.4 kDa
Gene Summary:	LIM domain transcription factor; involved in lymphoid and neural differentiation [RGD, Feb 2006]

Product images:



Circular map for RR207912