

Product datasheet for MR206390

Lhx2 (NM_010710) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lhx2 (NM_010710) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lhx2
Synonyms:	ap; apterous; Lh-2; LH2A; Lim2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206390 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTCCACAGTCTGTCTGGGCCCGAGGTGCACGGGGTCATCGACGAGATGGACCGCAGGGCCAAGA
GCGAGGCTCCGGCCATCAGCTCCGCCATCGACCGCGGACACGGAGACGACCATGCCGTCCATCAGCAG
TGACCGGGCAGCGTTGTGTGCTGGCTGTGGGGCAAGATCTCTGACCGCTACTACCTGCTGGCAGTAGAC
AAGCAATGGCACATGCGCTGCCTCAAGTCTGTGAATGCAAGCTCAACCTGGAGTCGGAACCTCACCTGCT
TCAGCAAGGATGGCAGCATCTACTGCAAAGAAGACTACTACAGGGGTTCTCTGTGCAGCGCTGCGCCCG
CTGCCACCTGGGCATCTCGGCCTCAGAGATGGTGTATGCGCGCTCGGGACTTGGTTTATCACCTCAACTGC
TTCACATGCACAACGTGTAACAAGATGCTGACGACCGGCGACCATTCGCGCATGAAGGACAGCCTGGTCT
ATTGCCGCTTGCACCTTCGAGGCTCTGCTGCAGGGCGAATACCCAGCACACTTTAACCATGCCGACGTGGC
AGCGGGCGGAGCCGAGCCGAGCCGAGCAGCTAAGAGTGCAGGATTGGGCTCAGCCGGGGCTAATCCGCTGGGT
CTTCCCTACTACAACGGCGTGGGCACTGTGAAAAGGGGAGGCCGAGAAAGCGCAAGAGTCCAGGACCCG
GGCAGATCTGGCAGCTTACAACGCCGCGCTTAGCTGTAAACGAGAACGATGCTGAACACCTGGATCGTGA
CCAGCCCTACCCAGCAGCCAAAAGACAAAAGCGCATGCGCACCTCCTTCAAGCACCACAGCTTCGGACA
ATGAAGTCTTACTTTGCCATTAACCACAATCCCGATGCCAAGACTTGAAGCAGCTTGGCAAAAGACCG
GCCTCACCAAGAGAGTCCCTCCAGGTCTGGTTTCAGAATGCCCGGGCCAAGTTTCAGGCGCAACCTTTTACG
GCAGGAAAACACGGGCGTGGACAAGACGTGATGCCACGCTGCAGACAGGGACGCCGTCAGGGCCCGCC
TCGGAGCTGTCCAACGCCTCGCTCAGCCCTCCAGCACGCTACAACCTCACAGACTTGACTAGCCCCA
CCCTGCCGACTGTGACGTGAGTCTTAACCTCTGTGCCTGGCAACCTGGAGGGCCACGAGCCCCACAGCCC
TTCACAAACGACTCTTACCAACCTTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206390 protein sequence
Red=Cloning site Green=Tags(s)

MLFHSLSGPEVHGVIDEMDRRAKSEAPAISSAIDRGDTETTMPSSISSDRAALCAGCGGKISDRYYLLAVD
 KQWHMRLKCCECKLNLESELTCFSKDGSIYCKEDYRRFSVQRCARHLGISASEMVMRARDLVYHLNC
 FTCTTCNKMLTTGDHFGMKDSL VYCR LHFEALLQGEYPAHFNHADVA AAAAAAAAAAASAGLGSAGANPLG
 LPYYNGVGT VQGRPRKRKSPGPGADLAAYNAALSCNENDA EHLDRDQYPSSQKTKRMRTSFKHHQLRT
 MKSYFAIHNHPDAKDLKQLAQKTGLTKRVLQVWFQNAKAKFRRNLLRQENTGVDKTSDATLQTGTPSGPA
 SELSNASLSPSSTPTTLTDLTSP TLPVT SVLTSVPGNLEGHEPHSPSQTTLTNLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010710

ORF Size: 1221 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_010710.4](#)

RefSeq Size: 2295 bp

RefSeq ORF: 1221 bp

Locus ID: 16870

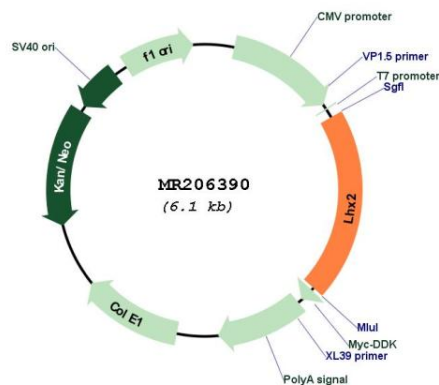
UniProt ID: [Q9Z0S2](#)

Cytogenetics: 2 B

MW: 44.4 kDa

Gene Summary: Acts as a transcriptional activator. Stimulates the promoter of the alpha-glycoprotein gene. Transcriptional regulatory protein involved in the control of cell differentiation in developing lymphoid and neural cell types.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206390