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Product datasheet for MR206084

Lhx4 (NM_010712) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lhx4 (NM_010712) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lhx4
Synonyms:	A330062J17Rik; Gsh-4; Gsh4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>MR206084 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGCAGAGCGCGGCTGTCCCCGCGGAGGGGGCTGTCAAGGGGCTCCCGGAGATGCTCGGTGTGCCGA
TGCAACAGATTCCCCAGTGTGCTGGCTGCAACCAACATATCCTGGATAAGTTCATCCTGAAGGTCCTGGA
CAGACACTGGCACAGCTCCTGCCTCAAGTGCGCAGACTGCCAGATGCAGCTGGCTGACAGATGCTTCTCC
AGGGCCGGCAGTGTCTACTGCAAGGAAGATTTCTTCAAACGCTTTGGCACAAAATGCACAGCCTGCCAGC
AGGGCATCCCCCCGACCCAGGTGGTCCGCAAGGCTCAGGACTTTGTCTACCACCTGCACTGCTTTGCCTG
CATCATCTGCAACCGGCAGCTGGCCACGGGGGACGAGTTCTACCTTATGGAGGATGGCCGGCTAGTGTGC
AAAGAAGACTATGAGACAGCCAAGCAAAACGATGACTCGGAGGCTGGGGCTAAGCGACCTCGGACCACCA
TCACAGCAAAGCAGCTGGAGACACTAAAGAACGCATACAAGAACTCCCCAAAGCCTGCCCGGCATGTGAG
AGAGCAGCTCTCCTCCGAGACAGGCCTGGACATGAGAGTAGTACAGGTTTGGTTTCAGAACAGAAGAGCC
AAGGAGAAAAGGCTAAAGAAGGACGCGGGGCGCCATCGCTGGGGCCAGTTCTACAAGAGTGTCAAGAGGA
GCCGGGGAGGCAGCAAGCAGGAGAAGGAGAGCTCAGCAGAGGACTGTGGGGTTAGTGACAGTGAGCTGAG
CTTCCGAGAAGATCAAATACTCTCAGAGCTTGGCCACACCAATAGGATTTATGGCAACGTGGGGGACGTT
ACAGGCGGACAGTTAATGAATGGGAGTTTCTCCATGGATGGGACAGGACAATCCTATCAGGACTTGAGGG
ATGGGAGCCCTTATGGAATCCCCCAGTCTCCGTCCTCCATATCGTCCCTCCCATCCCATGCTCCTTTGCT
CAATGGGCTGGATTACACCGTGGACAGTAATCTGGGCATCATTGCGCATGCAGGGCAGGGAGTCAGCCAG
ACACTGAGAGCCATGGCTGGGGGACCCACCTCTGACCTCTCGACAGGAAGCAGTGTAGGCTACCCTGATT
TTCCAACTACCCCAGCCTCTTGGCTCGATGAGATGGACCATCCTCCTTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

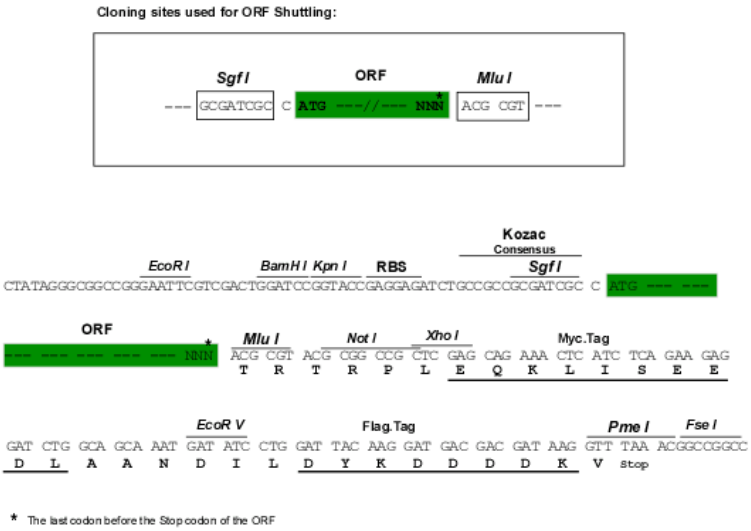
>MR206084 protein sequence
Red=Cloning site Green=Tags(s)

MMQSAAVPAEGAVKGLPEMLGVPMQQIPQCAGCNQHILDKFILKVLDRHWHSSCLKCADCQMQLADRCFS
RAGSVYCKEDFFKRFGTKCTACQQGIPPTQVVRKAQDFVYHLHCFACIICNRQLATGDEFYLMEDGRLVC
KEDYETAKQNDDSEAGAKRPRTTITAKQLETLKNAYKNSPKPARHVREQLSSETGLDMRVVQVWFQNRRA
KEKRLKKDAGRHRWGQFYKSVKRSRGGSKQEKESSAEDCGVSDSELSFREDQILSELGHTNRIYGNVGDV
TGGQLMNGSFSMDGTGQSYQDLRDGSPYGIPQSPSSISSLPSHAPLLNGLDYTVDSNLGIIAHAGQGVSQ
TLRAMAGGPTSDLSTGSSVGYPDFPTTPASWLDEMDHPPF

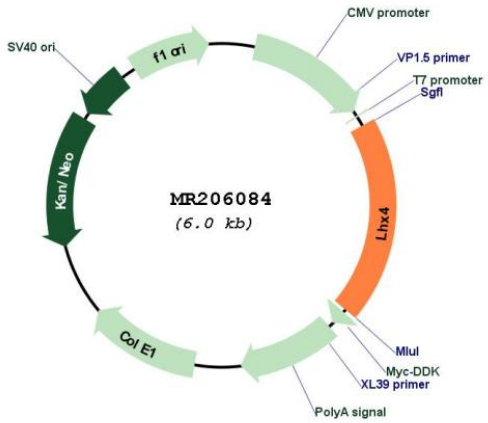
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010712

ORF Size:	1173 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_010712.2, NP_034842.2
RefSeq Size:	1853 bp
RefSeq ORF:	1173 bp
Locus ID:	16872
UniProt ID:	P53776
Cytogenetics:	1 67.47 cM
MW:	43.1 kDa
Gene Summary:	May play a critical role in the development of respiratory control mechanisms and in the normal growth and maturation of the lung. Binds preferentially to methylated DNA (By similarity).[UniProtKB/Swiss-Prot Function]