

## Product datasheet for RC218951

### LHX5 (NM\_022363) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	LHX5
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

**ORF Nucleotide Sequence:** >RC218951 representing NM\_022363  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGATGGTGCCTGCGCCGTTGCGAGCGGCCCATCCTCGACCGCTTTCTGCTGAACGTGCTGGACCGCG  
CGTGGCACATCAAATGTGTTCACTGCTGCGAGTGCAAACCAACCTCTCGGAGAAGTCTTCTCGCGCA  
GGGCAAGCTCTACTGCAAAAATGACTTTTTTCAGGCGCTTTGGCACGAAATGCGCCGGCTGCGCGCAAGGC  
ATCTCGCCCAGCGACTGGTGCGAAGGCCGGAGCAAAGTCTTTCACCTCAACTGTTTCACCTGCATGG  
TGTGTAACAAGCAGCTGTCCACCGCGGAGGAGCTCTACGTCATCGACGAGAACAAGTTCGTGTGCAAAGA  
CGACTACCTGAGCTCATCCAGCCTCAAGGAGGGCAGCCTCAACTCAGTGTATCCTGTACGGACCGCAGT  
TTGTCCCCGGACCTCCAGGACGCACTGCAGGACGACCCCAAAGAGACGGACAACCTCGACCTCGTCGGACA  
AGGAGACGGCCAACAACGAGAACGAGGAGCAGAAGTTCGGGCACCAAGCGCGCGGCCCGCCGACCCAT  
CAAGGCCAAGCAGCTGGAGACGCTCAAGGCTGCCTTCGCGCCACGCCCAAGCCACGCGCCACATCCGC  
GAGCAGCTGGCGCAGGAGACCGCCTCAACATGCGCGTTCATCCAGGTGTGGTTTCAGAACCAGCGTCCA  
AAGAACCGCCGATGAAACAGCTGAGCGCCCTAGGCGCCCGGAGGCACGCCTTCTCCGGAGTCCGCGCGC  
CATGCGTCCGCTGGCGCGCCGCTTGGACGAGTCTGAGATGTTGGGGTCCACCCCGTACACCTACTACGGA  
GACTACCAAGGCGACTACTACGCGCCGGGAAGCAACTACGACTTCTTCGCGCACGGCCCGCCTTCGACGG  
CGCAGTCCCCGGCCGACTCCAGCTTCTGGCGGCCTCTGGCCCCGGCTCGACGCGCTGGGAGCGCTGGA  
ACCGCCGCTCGCCGGCCCGCACGCGCGGACAACCCAGGTTACCCGACATGATCTCGCACCCGGACACA  
CCGAGCCCCGAGCCAGGCTGCGGGCAGCTGCACCCATGCCCGCGAGGTATTCAGCGCGGGCCCA  
GCCCGCCCTCCCAATGAGCGGCACCGCGCTACAGCGGACCCCTGTCGCATCCCAACCCGAGCTCAA  
CGAAGCCCGCTGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC218951 representing NM\_022363  
 Red=Cloning site Green=Tags(s)

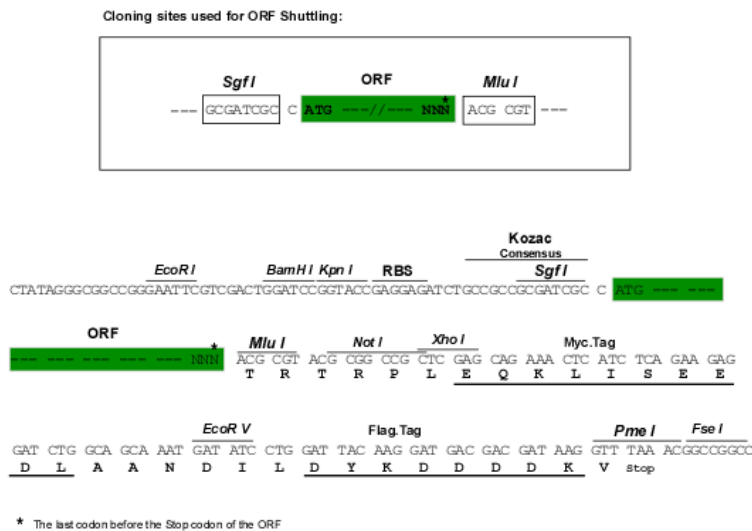
MMVHCACGERPILDRFLNVLDRAWHIKCVQCECKTNLSEKCFSSREGKLYCKNDFRRFGTKCAGCAQG  
 ISPSDLVRKARSKVFHLNCFMCMCNKQLSTGEELYVIDENKFVCKDDYLSSSSLKEGSLNSVSSCTDRS  
 LSPDLQDALQDDPKETDNSTSSDKETANNENEEQNSGTRRRGPRRTTIKAKQLETLKAAFAATPKPTRHIR  
 EQLAQETGLNMRVIQVWFQNRRSKERRMKQLSALGARRHAFFRSPRRMRPLGGRLDESEMLGSPYTYYG  
 DYQGDYYAPGSNYDFFAHGPPSQAQSPADSSFLAASGPGSTPLGALEPPLAGPHAADNPRFTMDMISHPDT  
 PSEPEGLPGLHMPGPEVFSGGPSPFPMSGTSGYSGPLSHPNPELNEAAVW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8116\\_a05.zip](https://cdn.origene.com/chromatograms/mk8116_a05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022363

**ORF Size:** 1206 bp

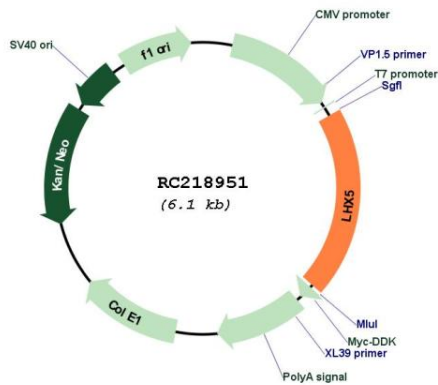
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone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

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_022363.3</a>
<b>RefSeq Size:</b>	2084 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	64211
<b>UniProt ID:</b>	<a href="#">Q9H2C1</a>
<b>Cytogenetics:</b>	12q24.13
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	44.2 kDa
<b>Gene Summary:</b>	This gene encodes a protein belonging to a large protein family, members of which carry the LIM domain, a unique cysteine-rich zinc-binding domain. The encoded protein may function as a transcriptional regulator and be involved in the control of differentiation and development of the forebrain. In mice, this protein is essential for the regulation of precursor cell proliferation and the control of neuronal differentiation and migration during hippocampal development. This protein is involved in learning and motor functions in adult mice. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218951

□

Western validation with an anti-DDK antibody  
 \* L: Control HEK293 lysate R: Over-expression lysate