

## Product datasheet for **MC227299**

### Lhx2 (NM\_001290646) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lhx2 (NM\_001290646) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Lhx2  
**Synonyms:** ap; apterous; Lh-2; LH2A; Lim2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227299 representing NM\_001290646  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCGTCATCAGCAGTGACCGGGCAGCGTTGTGTGCTGGCTGTGGGGCAAGATCTCTGACCGCTACT  
ACCTGCTGGCAGTAGACAAGCAATGGCACATGCGCTGCCTCAAGTGTGAATGCAAGCTCAACCTGGA  
GTCGGAACCTCACCTGCTCAGCAAGGATGGCAGCATCTACTGCAAAGAAGACTACTACAGCGGTTCTCT  
GTGCAGCGCTGCGCCCGCTGCCACCTGGGCATCTCGGCCCTCAGAGATGGTGATGCCGCTCGGGACTTGG  
TTTATCACCTCAACTGCTTCACATGCACAACGTGTAACAAGATGCTGACGACCGGCGACCATTTCCGGCAT  
GAAGGACAGCCTGGTCTATTGCCGCTTGCACTTCGAGGCTCTGCTGCAGGGCGAATACCCAGCACACTTT  
AACCATGCCGACGTGGCAGCGGGCGCAGCCGACGCGCAGCAGCTAAGAGTGCAGGATTGGGCTCAGCCG  
GGGCTAATCCGCTGGGTCTTCCCTACTACAACGGCGTGGGCATGTGCAAAAGGGGAGGCCGAGAAAAGCG  
CAAGAGTCCAGGACCCGGGGCAGATCTGGCAGCTTACAACGCCGCGCTTAGCTGTAAACGAGAACGATGCT  
GAACACCTGGATCGTGACCAGCCCTACCCAGCAGCCAAAAGACAAAGCGCATGCCACCTCCTTCAAGC  
ACCACCAGCTTCGGACAATGAAGTCTTACTTTGCCATTAACCACAATCCCGATGCCAAGGACTTGAAGCA  
GCTTGCGCAAAAGACCGGCCTCACCAAGAGAGTCTCCAGTCTGGTTTCAGAATGCCCGGGCAAGTTC  
AGGCGCAACCTTTTACGGCAGGAAAACACGGCGTGGACAAGACGTGAGTGCACGCTGCAGACAGGGA  
CGCCGTGACGGCCCGCTCGGAGCTGTCCAACGCCTCGCTCAGCCCTCCAGCACGCCTACAACCTCAC  
AGACTTGACTAGCCCCACCCTGCCGACTGTGACGTGAGTCTTAACCTTCTGTGCCTGGCAACCTGGAGGGC  
CACGAGCCCCACAGCCCTCACAAACGACTCTTACCAACCTTTTCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001290646



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<b>Insert Size:</b>	1098 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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>RefSeq:</b>	<u>NM_001290646.1, NP_001277575.1</u>
<b>RefSeq Size:</b>	2234 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	16870
<b>Cytogenetics:</b>	2 B
<b>Gene Summary:</b>	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] Transcript Variant: This variant (2) contains an alternate 5' terminal exon and it thus differs in the 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a.