

Product datasheet for **SC307130**

LHX3 (NM_178138) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHX3 (NM_178138) Human Untagged Clone
Tag:	Tag Free
Symbol:	LHX3
Synonyms:	CPHD3; LIM3; M2-LHX3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_178138 edited

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CGGGACCCATGGAGGCGCGGGATGCTGCTGGAACGGGGCTCGAGCGCGACCGAGCGA
GGCCCGGGGCGCCGCGCTGTGCACCTTGGCGGGGACTCGGAGATCCCGCTGTGCGCTG
GCTGTGACCAGCACATCCTGGACCGCTTCATCCTCAAGGCTCTGGACCGCACTGGCACA
GCAAGTGTCTCAAGTGCAGCGACTGCCACACGCCACTGGCCGAGCGCTGTTAGCCGAG
GGGAGAGCGTTTACTGCAAGGACGACTTTTCAAGCGCTTCGGGACCAAGTGCGCCGCGT
GCCAGCTGGGCATCCCGCCACGCAGGTGGTGCGCCGCGCCAGGACTTCGTGTACCACC
TGCACTGCTTTGCTGCGTGTGCAAGCGGAGCTGGCCACGGGCGACGAGTTCTACC
TCATGGAGGACAGCCGGCTCGTGTGCAAGCGGACTACGAAACCGCCAAGCAGCGAGAGG
CCGAGGCCACGGCAAGCGGCCGCGCACGACCATACCGCCAAGCAGCTGGAGACGCTGA
AGAGCGCTTACAACACCTCGCCCAAGCGCGCGCCACGTGCGCGAGCAGCTCTCGTCCG
AGACGGGCCTGGACATGCGCGTGGTGCAGGTTTGGTTCCAGAACCGCCGGCCAAGGAGA
AGAGGCTGAAGAAGGACGCCGGCCGCGCAGCGCTGGGGGAGTATTTCCGCAACATGAAGC
GCTCCCGCGCGGCTCCAAGTCCGACAAGGACAGCGTTTCAGGAGGGGAGGACAGCGACG
CTGAGGTCTCCTTCCCGATGAGCCTTCTTGGCGGAAATGGGCCCGGCCAATGGCCTCT
ACGGGAGCTTGGGGGAACCCACCCAGGCCTTGGGCCGGCCCTCGGGAGCCCTGGGCAACT
TCTCCCTGGAGCATGGAGGCTTGGCAGGCCAGAGCAGTACCGAGAGCTGCGTCCCGGCA
GCCCCACGGTGTCCCCCATCCCCGCGCCCGCAGAGCCTCCCTGGCCCCAGCCCC
TCCTCTCCAGCCTGGTGTACCCAGACACAGCTTGGGCTTGTGCCCTCGGGAGCCCCCG
GGGGCCCCCACCATGAGGGTGTGGCAGGGAACGGACCCAGTTCTGACCTATCCACGG
GGAGCAGCGGGGTTACCCGACTTCCCTGCCAGCCCCGCTCCTGGCTGGATGAGGTAG
ACCACGCTCAGTTCTGACGCTCGAGTCTCAAGGGCAATTAGATCTGGTACCGATATCA
AGCTTGTCGAC
  
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Restriction Sites:	Please inquire
ACCN:	NM_178138



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Insert Size:	1300 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_178138.2 , NP_835258.1
RefSeq Size:	2184 bp
RefSeq ORF:	1194 bp
Locus ID:	8022
UniProt ID:	Q9UBR4
Cytogenetics:	9q34.3
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a member of a large family of proteins which carry the LIM domain, a unique cysteine-rich zinc-binding domain. The encoded protein is a transcription factor that is required for pituitary development and motor neuron specification. Mutations in this gene cause combined pituitary hormone deficiency 3. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (1) represents the shorter transcript. This transcript encodes two proteins; isoform a and M2-LHX3, which is generated by an internal translation initiation codon.