

Product datasheet for **RG210786**

LHX2 (NM_004789) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHX2 (NM_004789) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LHX2
Synonyms:	hLhx2; LH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210786 representing NM_004789 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTCCACAGTCTGTCGGGCCCGAGGTGCACGGGGTCATCGACGAGATGGACCGCAGGGCCAAGA
GCGAGGCTCCCGCCATCAGCTCCGCCATCGACCGCGGCGACACCGAGACGACCATGCCGTCCATCAGCAG
TGACCGCGCCGCGCTGTGCGCCGCTGCGGGGCAAGATCTCGGACCGCTACTACCTGCTGGCGGTGGAC
AAGCAGTGGCACATGCGCTGCCTCAAGTCTGCGAGTGAAGCTCAACCTGGAGTCGGAGCTCACCTGTT
TCAGCAAGGACGGTAGCATCTACTGCAAGGAAGACTACTACAGGCGCTTCTCTGTGCAGCGCTGCGCCCG
CTGCCACCTGGGCATCTCGGCCTCGGAGATGGTATGCGCGCTCGGGACTTGGTTTATCACCTCAACTGC
TTCACGTGCACCAGTGTAAACAAGATGCTGACCACGGGCGACCACTTCGGCATGAAGGACAGCCTGGTCT
ACTGCCGCTTGCACTTCGAGGCGCTGCTGCAGGGCGAGTACCCCGCACACTTCAACCATGCCGACGTGGC
AGCGGGCGCCGCTGCAGCCGCGGCGGCCAAGAGCGCGGGGCTGGGCGCAGCAGGGGCCAACCCCTCTGGGT
CTTCCCTACTACAATGGCGTGGGCACTGTGCAGAAGGGGCGGCCGAGGAAACGTAAGAGCCCGGGCCCG
GTGCGGATCTGGCGGCCATAACGCTGCGCTAAGTGAACGAAAACGACGCAGAGCACCTGGACCGTGA
CCAGCCATACCCGAGCAGCCAGAAGACCAAGCGCATGCGCACGTCCTTCAAGCACCACAGCTTCGGACC
ATGAAGTCTTACTTTGCCATTAACCACAACCCCGACGCCAAGACTTGAAGCAGCTCGCGCAAAGACGG
GCCTCACCAAGCGGGTCCCTCAGGTCTGGTCCAGAACGCCCAGCCAAGTTTCAGGCGCAACCTCTTACG
GCAGGAAAACACGGGCGTGGACAAGTGCACAGACGCGGCGCTGCAGACAGGGACGCCATCGGGCCCGGCC
TCGGAGCTCTCCAACGCTCGCTCAGCCCTCCAGCACGCCACCACCCTGACAGACTTGACTAGCCCCA
CCCTGCCAACTGTGACGTCCGTCTTAACCTCTGTGCTGGCAACCTGGAGGGCCATGAGCCTCACAGCCC
CTCACAACGACTCTTACCAACCTTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210786 representing NM_004789
 Red=Cloning site Green=Tags(s)

MLFHSLSGPEVHGVIDEMDRRAKSEAPAISSAIDRGDTETTPSISSDRAALCAGCGGKISDRYLLAVD
 KQWHMRLKCCECKLNLESELTCFSKDGSIYCKEDYRRFVSVQRCARHLGISASEMVMRARDLVYHLNC
 FTCTTCKNMLTTGDHFGMKDSLVCRLHFEALLQGEYPAHFNHADVAAAAAAAAAASAGLGAAGANPLG
 LPYYNGVGTVQKGRPRKRKSPGPGADLAAYNAALSCNENDAHLDRDQYPSSQKTKRMRTSFKHHQLRT
 MKSYFAINHNPDADLKLQLAQKTGLTKRVLQVWFQNAKAKFRRNLLRQENTGVDKSTDAALQGTGTPSGPA
 SELSNASLSPSSTPTTLTDLTSPPLPTVTSVLTSVPGNLEGHEPHSPSQTTLTNLF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004789

ORF Size: 1218 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_004789.4](#)

RefSeq Size: 2416 bp

RefSeq ORF: 1221 bp

Locus ID: 9355

UniProt ID: [P50458](#)

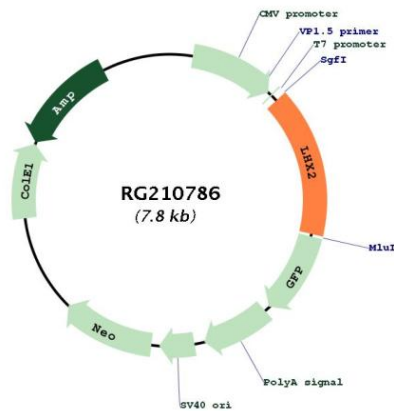
Cytogenetics: 9q33.3

Domains: homeobox, LIM

Protein Families: Transcription Factors

Gene Summary: 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. The protein can recapitulate or rescue phenotypes in *Drosophila* caused by a related protein, suggesting conservation of function during evolution. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210786