

Product datasheet for **RG218951**

LHX5 (NM_022363) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	LHX5
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG218951 representing NM_022363
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGATGGTGCAGTGCAGCGGTTGCGAGCGGCCCATCCTCGACCGCTTTCTGCTGAACGTGCTGGACCGCG
CGTGCGACATCAAATGTGTTCACTGCTGCGAGTGCAAAACCAACCTCTCGGAGAAGTGCTTCTCGCGCA
GGCAAGCTCTACTGCAAAAATGACTTTTTCAAGCGCTTTGGCACGAAATGCGCCGGCTGCGCGCAAGGC
ATCTCGCCAGCGACCTGGTGCAGGAGGCCGGAGCAAAGTCTTTCACCTCAACTGTTTCACCTGCATGG
TGTGTAAACAGCAGCTGTCCACCGGCGAGGAGCTCTACGTCATCGACGAGAACAAGTTCTGTGTCAAAGA
CGACTACCTGAGCTCATCCAGCCTCAAGGAGGGCAGCCTCAACTCAGTGTCATCCTGTACGACCGCAGT
TTGTCCCCGACCTCCAGGACGCACTGCAGGACGACCCCAAAGAGACGGACAACCTCGACCTCGTCGGACA
AGGAGACGGCCAACAACGAGAACGAGGAGCAGAACTCGGGCACCAAGCGCGCGGCCCGCACCAACCAT
CAAGGCCAAGCAGCTGGAGACGCTCAAGGCTGCCTTCGCGCCACGCCAAGCCACGCGCCACATCCGC
GAGCAGCTGGCGCAGGAGACCGGCTCAACATGCGCGTCATCCAGGTGTGGTTTCAGAACCGACGGTCCA
AAGAACCGCGGATGAAACAGCTGAGCGCCCTAGGCGCCCGGAGGCACGCCCTTCTCCGAGTCCGCGGCG
CATGCGTCCGCTGGGCGGCCGCTTGGACGAGTCTGAGATGTTGGGGTCCACCCCGTACACCTACTACGGA
GACTACCAAGGCGACTACTACGCGCCGGGAAGCAACTACGACTTCTTCGCGCACGGCCCGCCTTCGACGG
CGCAGTCCCCGGCGACTCCAGCTTCTGGCGGCTCTGGCCCCGGCTCGACGCCGCTGGGAGCGCTGGA
ACCGCGCTCGCCGGCCCGCACGCGCGGACAACCCAGGTTACCGACATGATCTCGCACCCGGACACA
CCGAGCCCCGAGCAGGCTGCCGGGACGCTGCACCCATGCCCGGCGAGGTATTAGCGGCGGGCCCA
GCCCGCCCTTCCAATGAGCGGCACGCGCTACAGCGGACCCCTGTCGCATCCCAACCCGAGCTCAA
CGAAGCCGCGTGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



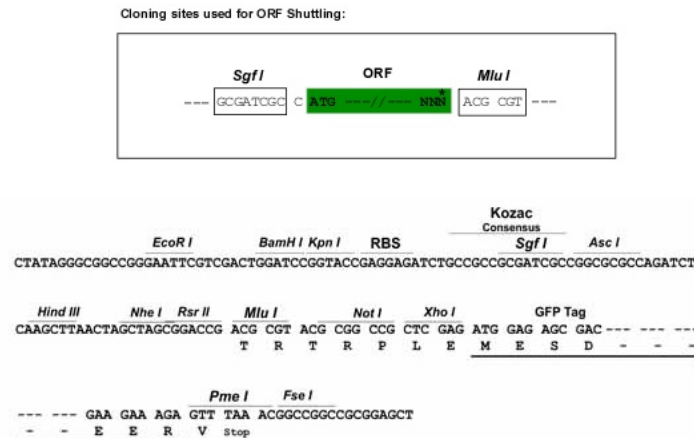
Protein Sequence: >RG218951 representing NM_022363
Red=Cloning site Green=Tags(s)

MMVHCAGCERPIIDRFLNLVDRAWHIKCVQCCECKTNLSEKCFSSREGKLYCKNDFRFRGTCKAGCAQG
ISPSDLVRKARSKVFLNCFTCMVCNKQLSTGEELYVIDENKFVCKDDYLSSSLKEGSLNSVSSCTDRS
LSPDLQDALQDDPKETDNSTSSDKETANNENEEQNSGTRKRRGPRTTIKAKQLETLKAAFAATPKPTRHIR
EQLAQETGLNMRVIQVWFQNRSSKERRMKQLSALGARRHAFFRSPRRMRPLGGRLDESEMLGSTPYTYYG
DYQGDYYAPGSNYDFFAHGPPSQAQSPADSSFLAASGPGSTPLGALEPPLAGPHAADNPRFTDMISHPDT
PSPPEGLPGLHMPGGEVFGSGGSPSPFMSGTSGYSGPLSHNPENEAADV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022363

ORF Size: 1206 bp

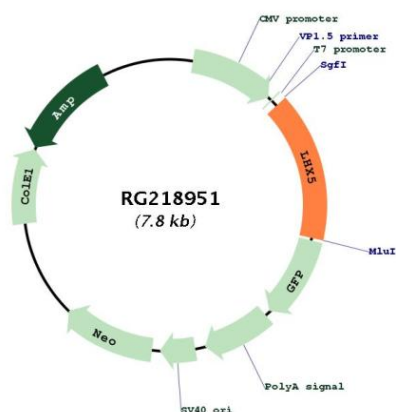
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_022363.3
RefSeq Size:	2084 bp
RefSeq ORF:	1209 bp
Locus ID:	64211
UniProt ID:	Q9H2C1
Cytogenetics:	12q24.13
Protein Families:	Druggable Genome
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 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 RG218951