

Product datasheet for **RG207301**

LHX8 (NM_001001933) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHX8 (NM_001001933) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LHX8
Synonyms:	LHX7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207301 representing NM_001001933 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGATTCTGAGCAGGTGTCAGGGGCTCATGTGAGAGGAGTGCGGGCGGACTACAGCCCTGGCGGCCG
GGAGGACTCGCAAAGGCGCCGGGAAGAGGGACTGGTGTAGCCCCGAGGGAGCGGGGACGAGGACTCGTG
CTCCTCTCGGCCCGCTGTCCCGTCGTCTCGCCCCGGTCCATGGCCTCGGGCTCCGGCTGCCCTCT
GGCAAGTGTGTGCAACAGTTGCGGCCTGGAGATCGTGGACAAATACCTTCTCAAGGTGAATGACCTAT
GCTGGCATGTCCGGTGTCTCTCTGCAGTGTTCGAGAACCTCCCTAGGAAGGCACACCAGCTGTTATAT
TAAAGACAAAGACATTTTCTGCAAACCTTGATTATTTTCAGAAGGTATGGAACCTCGCTGCTCTCGATGTGGG
AGACACATCCATTCTACTGACTGGTCCGAGAGCCAAGGGGAATGTCTATCACTTGGCATGCTTTGCCCT
GCTTTTCTGCAAAGGCAACTTTCCACAGGAGAGGAGTTTGCTTTGGTGGAAAGAGAAAGTCCCTCTGCAG
AGTACATTATGACTGCATGCTGGATAATTTAAAAAGAGAAGTAGAAAAATGGGAATGGGATTAGTGTGGAA
GGTGCCCTCCTCACAGAGCAAGATGTTAACCATCCAAAACCAGCAAAAAGAGCTCGGACCAGCTTTACAG
CAGATCAGCTTCAGGTTATGCAAGCACAATTTGCTCAGGACAACAACCCAGATGCACAGACACTCCAGAA
ATTGGCAGAAAGGACAGGCTTATGAGCAGACGTGTGATACAGGTGTGGTTTCAGAATTGTAGAGCACGCCAC
AAGAAACAGTCAGTCTAATCACTCATCTCCACCCAGTCACAGCAGCCCCACCTCCAGGCTGTCTC
CACCCATGTTAGAAGAAATGGCTTATTCTGCCTACGTGCCCAAGATGGAACGATGTTAACTGCGCTGCA
TAGTTATATGGATGCTCATTACCAACAACCTCTGGACTCCAGCCCTTGTACCCATTCAATGACACAA
CTGCCAATAAGTCATACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207301 representing NM_001001933
 Red=Cloning site Green=Tags(s)

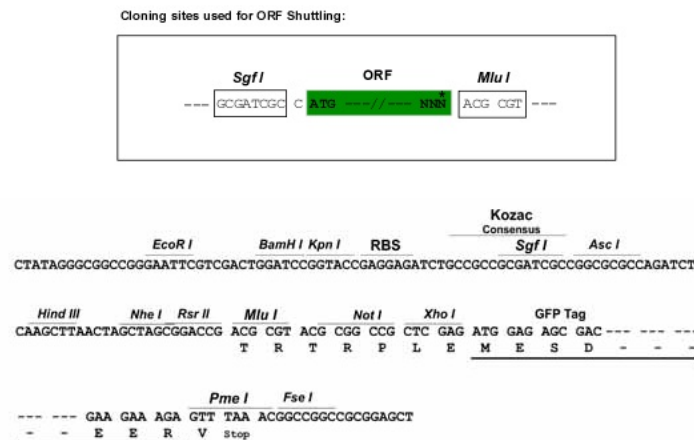
MQILSRCQGLMSEECGRTTALAAGRTRKGAGEEGLVSPEGAGDEDCSSSAPLSPSSSPRSMASGSGCPP
 GKVCVNSCGLEIVDKYLLKVNDLCWHVRCLSCSVCRTSLGRHTSCYIKDKDIFCKLDYFRRYGTRCSR
 RHIHSTDWVRRAKGNVYHLACFACFSCKRQLSTGEEFALVEEKVLCRVHYDCMLDNLKREVENGNISVE
 GALLTEQDVNHPKPAKRARTSFTADQLQVMQAQFAQDNNPDAQTLQKLAERTGLSRRVIQVWFQNCRARH
 KKHVSPNHSSTPVTAAPPSRLSPPMLEEMAYSAYVPQDGMTALTALHSYMDAHSPTTLGLQPLPHSMTQ
 LPI SHT

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2369_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001933

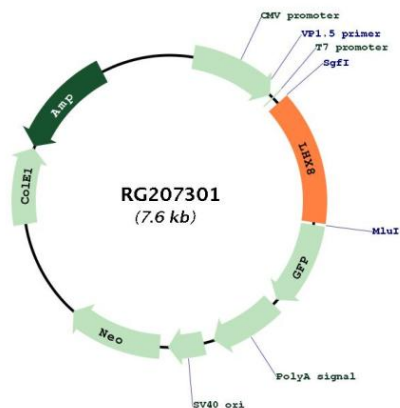
ORF Size: 1068 bp

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 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:	<ol style="list-style-type: none">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_001001933.1 , NP_001001933.1
RefSeq Size:	2393 bp
RefSeq ORF:	1071 bp
Locus ID:	431707
UniProt ID:	Q68G74
Cytogenetics:	1p31.1
Gene Summary:	The protein encoded by this gene is a member of the LIM homeobox family of proteins, which are involved in patterning and differentiation of various tissue types. These proteins contain two tandemly repeated cysteine-rich double-zinc finger motifs known as LIM domains, in addition to a DNA-binding homeodomain. This family member is a transcription factor that plays a role in tooth morphogenesis. It is also involved in oogenesis and in neuronal differentiation. This gene is a candidate gene for cleft palate, and it is also associated with odontoma formation. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG207301