

Product datasheet for **RG233832**

LHX8 (NM_001256114) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHX8 (NM_001256114) 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:	>RG233832 representing NM_001256114 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTCAGAGGAGTGGGGCGGACTACAGCCCTGGCGGCCGGGAGGACTCGAAAGGCGCCGGGAAGAGG
 GACTGGTGAGCCCGAGGGAGCGGGGACGAGGACTCGTGCTCCTCTCGGCCCGCTGTCCCGTCGTC
 CTCGCCCCGGTCCATGGCCTCGGGCTCCGGCTGCCCTCCTGGCAAGTGTGTGTGCAACAGTTGCGGCCTG
 GAGATCGTGGACAAATACCTTCTCAAGGTGAATGACCTATGCTGGCATGTCCGGTGTCTCTCCTGCAGTG
 TTTGCAGAACCTCCCTAGGAAGGCACACCAGCTGTTATATTAAAGACAAAGACATTTTCTGCAAACTTGA
 TTATTTTCAGAAGGTATGGAACCTGCTGCTCGATGTGGGAGACACATCCATTCTACTGACTGGGTCCGG
 AGAGCCAAGGGGAATGTCTATCACTTGGCATGCTTTGCCTGCTTTTCTGCAAAAGGCAACTTTCCACAG
 GAGAGGAGTTTGCTTTGGTGGAAGAGAAAGTCCTCTGCAGAGTACATTATGACTGCATGCTGGATAATTT
 AAAAAGAGAAGTAGAAAATGGGAATGGGATTAGTGTGGAAGGTGCCCTCCTCACAGAGCAAGATGTTAAC
 CATCCAAAACAGCAAAAAGAGCTCGGACCAGCTTTACAGCAGATCAGCTTCAGGTTATGCAAGCACAAT
 TTGCTCAGGACAACAACCCAGATGCACAGACACTCCAGAAATTGGCAGAAAGGACAGGCTTGAGCAGACG
 TGTGATACAGGTGTGGTTTCAGAATTGTAGAGCACGCCACAAGAAACACGTCAGTCCTAATCACTCATCC
 TCCACCCAGTCACAGCAGTCCCACCTCCAGGCTGTCTCCACCCATGTTAGAAGAAATGGCTTATTCTG
 CCTACGTGCCCAAGATGGAACGATGTTAACTGCGCTGCATAGTTATATGGATGCTCATTACCAACAAC
 TCTTGGACTCCAGCCCTTGTTACCCATTCAATGACACAACAGCAATAAGTCATACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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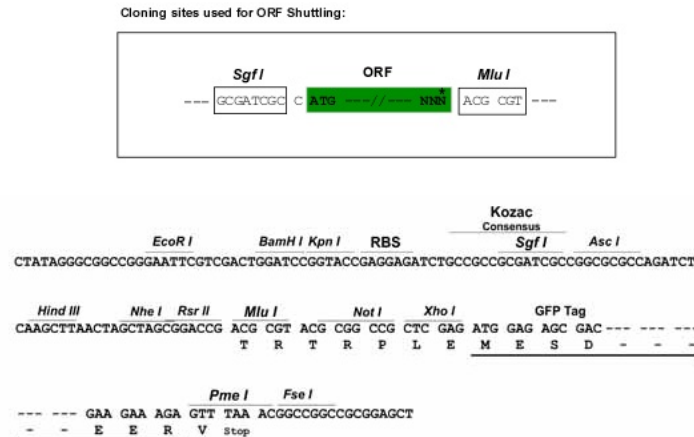
Protein Sequence: >RG233832 representing NM_001256114
 Red=Cloning site Green=Tags(s)

MSEECGRTTALAAGRTRKGAGEEGLVSPEGAGDEDCSSSAPLSPSSSPRSMASGSGCPPGKVCVNSCGL
 EIVDKYLLKVNDLCWHVRCLSCSVCRTSLGRHTSCYIKDKDIFCKLDYFRRYGTRCSRCGRHIHSTDWVR
 RAKGNVYHLACFACFSCKRQLSTGEFALVEEKVLCRVHYDCMLDNLKREVENGNISVEGALLTEQDVN
 HPKPAKRARTSFTADQLQVMAQFAQDNNPDATLQKLAERTGLSRRVIQVWFQNCRARHKKHVSPNHSS
 STPVTAVPPSRLSPPMLEEMAYSAYVPQDGTMLTALHSYMDAHSPTTLGLQPLLPHSMTQLPI SHT

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256114

ORF Size: 1038 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_001256114.2](#)

RefSeq Size: 1784 bp

RefSeq ORF: 1041 bp

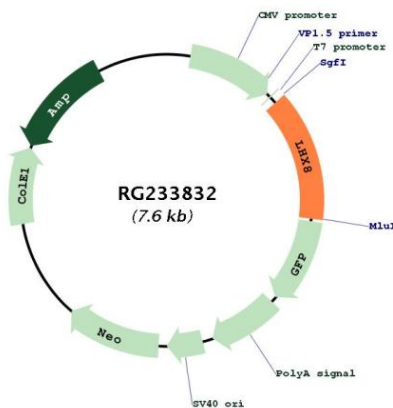
Locus ID: 431707

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 RG233832