

## Product datasheet for **RG224621**

### LHX9 (NM\_020204) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LHX9 (NM_020204) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LHX9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224621 representing NM_020204 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAATAGTGGGGTGCCGAGCAGAAGACAACCTCGTGTCTTTCCGCCCCAGCCATGCTCTTTCACG  
GGATCTCCGGAGGCCACATCCAAGGCATCATGGAGGAGATGGAGCGCAGATCCAAGACTGAGGCCCGTCT  
GGCCAAAGGCGCCAGCTCAACGGCCGCGACCGGGCATGCCCCCGCTCAGCCCGGAGAAGCCCGCCCTG  
TGCCCGGCTGCGGGGCAAGATCTCGGACAGTACTATCTGCTGGCTGTGGACAACAGTGGCATCTGA  
GATGCCCTGAAGTGTGTGAATGTAAGCTGGCCCTCGAGTCCGAGCTCACCTGCTTTGCCAAGGACGGTAG  
CATTTACTGCAAGGAGGATTACTACAGAAGGTTCTCTGTGCAGAGATGTGCCCGCTGCCACCTTGCCATT  
TCCGCCTCGGAGATGGTCATGCGCGCCCGAGACTCTGTCTACCACCTGAGCTGCTTCACCTGCTCCACTT  
GCAACAAGACTCTGACCACGGGCGACCATTTCCGGCATGAAGGACAGCCTGGTGTACTGCCGCGCCACTT  
CGAGACCCTCTTGCAAGGAGAGTATCCACCGCAGCTGAGCTACACGGAGCTGGCGCCAAGAGCGGCGGC  
CTGGCCCTGCCTTACTTCAACGGTACGGGCACCGTGCAGAAAGGGCGCCCGGAAGCGGAAGAGCCAG  
CGCTGGGAGTGGACATCGTCAATTACAACCTCAGGTTGTAATGAGAATGAGGCAGACCACTGGACCGGGA  
CCAGCAGCCTTATCCACCCTCGCAGAAGACCAAGCGCATGCGAACCTCTTCAAGCATCACCAGCTCCGG  
ACCATGAAATCCTACTTTGCCATCAACCACAACCCGGATGCCAAGGACCTCAAGCAGCTTGCCAGAAAA  
CAGGTCTGACCAAAGAGTTTTGCAAGTTTGGTTCCAAAACGCACGAGCCAAATTCAGAAGGAACCTTTT  
GCGGCAGGAGAATGGGGTGTGATAAAGCTGACGGCACGTGCTTCCGGCCCGCCCTCAGCAGACAGC  
GGAGCTCTCACTCCACCCGGCACTGCGACCACTTAAACAGACCTGACCAATCCCCTATCACTGTAGTGA  
CATCCGTGACCTTAACATGGACAGCCAGCAATCCGGAAGCCCTCACAACTACCTTAACAAACCTTTT  
C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

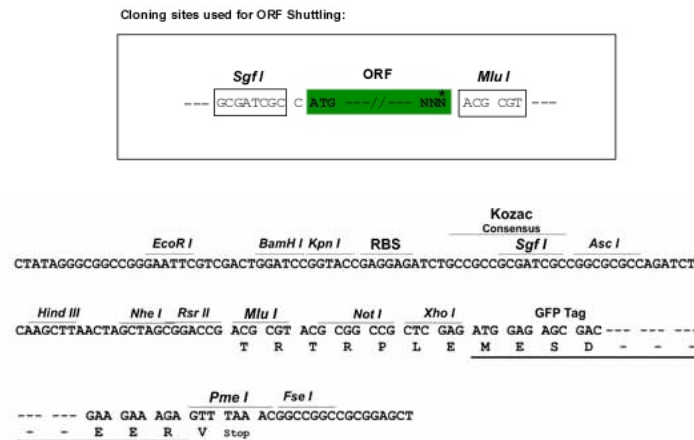
**Protein Sequence:** >RG224621 representing NM\_020204  
 Red=Cloning site Green=Tags(s)

```
MEIVGCRAEDNSCPFRPPAMLFHGISGGHIQGIMEEMERRSKTEARLAKGAQLNGRDAGMPPLSPEKPAL
CAGCGGKISDRYLLAVDKQWHLRCLKCCECKLALAESELTCFAKDGSYCKEDYRRFSVQRCARHLGI
SASEMVMRARDSVYHLSCFTCSTCNKTLTTGDHFGMKDSLVCRAHFETLLQGEYPPQLSYTELAAKSGG
LALPYFNGTGTVQKGRPRKRKSPALGVDIVNYSGCNENEAHLDLDRDQQPYPPSQKTKRMRTSFKHHQLR
TMKSYFAINHNPDADLKLQLAQKTGLTKRVLQVWFQNAKAKFRNLLRQENGGVDKADGTSLPAPPSADS
GALTPPGTATTLDLNTPTITVVTSVTSNMDSHESGSPSQTTLTNLF
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020204

**ORF Size:** 1191 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\\_020204.3](#)

**RefSeq Size:** 2515 bp

**RefSeq ORF:** 1194 bp

**Locus ID:** 56956

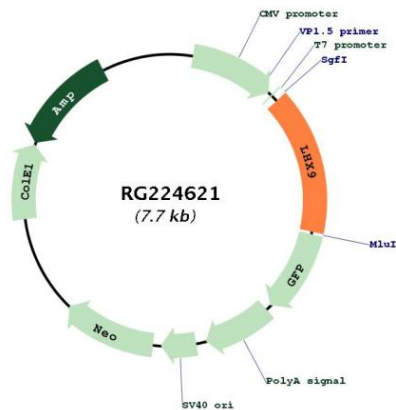
**UniProt ID:** [Q9NQ69](#)

**Cytogenetics:** 1q31.3

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene encodes a member of the LIM homeobox gene family of developmentally expressed transcription factors. The encoded protein contains a homeodomain and two cysteine-rich zinc-binding LIM domains involved in protein-protein interactions. The protein is highly similar to a mouse protein that causes gonadal agenesis when inactivated, suggesting a role in gonadal development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG224621