

Product datasheet for **RG204014**

LHX4 (NM_033343) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHX4 (NM_033343) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LHX4
Synonyms:	CPHD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204014 representing NM_033343 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCAGAGTGCAGCTGTCCCGCGGAAGGGGCTGTCAAGGGGCTCCCGGAGATGCTAGGTGTGCCGA
TGCAACAGATTCCCAGTGCCTGGCTGCAACCAGCACATCCTGGACAAGTTCATCCTGAAGTCTCTGGA
CAGACTGGCACAGCTCCTGCCTCAAGTGTGCAGACTGCCAGATGCAGCTGGCGGACAGGTGCTTCTCC
AGGGCTGGGAGCGTCTACTGCAAGGAGGACTTCTCAAGCGCTTCGGCACAAAATGCACGGCCTGCCAGC
AGGGTATCCCCCAACCCAGGTGGTCCGCAAGGCCAGGACTTTGTCTACCACCTGCACTGCTTTGCTTG
CATCATCTGCAACCGGCAGCTGGCCACGGGGGACGAATTCACCTCATGGAGGACGGGCGGCTGGTGTGC
AAGGAAGACTACGAGACAGCCAAGCAGAACGATGACTCAGAGGCTGGAGCTAAGCGGCCCCGGACCACCA
TCACAGCCAAGCAGCTGGAGACATTAAGAATGCATACAAGAACTCCCCAAGCCTGCCCGGCACGTGAG
GGAGCAGCTGTCTCAGAGACAGGCCTGGACATGAGGGTCTGACAGGTTTGGTTTCAGAACAAGGGCC
AAAGAGAAACGCCTGAAGAAGGATGCAGGGCGGCACCGCTGGGGGAGTTCTATAAGAGCGTCAAGAGGA
GCCGGGCGAGCAGCAAGCAGGAGAAGGAGAGCTCTGCAGAGGACTGTGGGGTTAGTGACAGTGAGCTGAG
CTTCCGAGAGGATCAAATCTCTCAGAATTGGCCACACCAATAGGATTTATGGCAACGTGGGGGACGTT
ACAGGCGGACAGTTAATGAATGGGAGCTTCTCCATGGACGGGACAGGACAATCCTATCAGGACTTGAGGG
ATGGGAGCCCCTATGGAATCCCCAGTCTCCATCCTCCATATCGTCCCTGCCATCCCACGCTCCTTTGCT
CAATGGGCTGGATTACACGGTGGACAGTAATTTGGGCATCATTGCGCATGCAGGGCAGGGAGTAAGCCAG
ACGCTGAGAGCCATGGCTGGGGGACCCACCTCTGACATCTCCACAGGAAGCAGTGTAGGCTATCCCAGCT
TTCCAAGTAGCCAGGCTCTTGGCTCGATGAAATGGATCATCCTCCTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG204014 representing NM_033343
 Red=Cloning site Green=Tags(s)

```
MMQSATVPAEGAVKGLPEMLGVPMQQIPQCAGCNQHILDKFILKVLDRHWHSSCLKADCQMQLADRCFS
RAGSVYCKEDFFKRFGTKCTACQQGIPPTQVVRKAQDFVYHLHCFACIICNRQLATGDEFYLMEDGRLVC
KEDYETAKQNDSEAGAKRPRTTITAKQLETLKNAYKNPKPARHVREQLSSETGLDMRVVQVWFQNRRA
KEKRLKKDAGRHRWGFYKSVKRSRGSSKQEKESAEDECGVSDSELSFREDQILSELGHTNRIYGNVGDV
TGGQLMNGSFMDGTGQSYQDLRDGSPYGIQPSPSSISLPSHAPLLNGLDYTVDSNLGIIAHAGQGVSQ
TLRAMAGGPTSDISTGSSVGYPDFPTSPGSLDEMDHPPF
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033343

ORF Size: 1170 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_033343.4](#)

RefSeq Size: 1913 bp

RefSeq ORF: 1173 bp

Locus ID: 89884

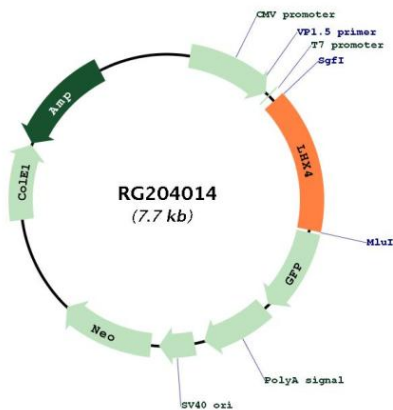
UniProt ID: [Q969G2](#)

Cytogenetics: 1q25.2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a member of a large protein family which contains the LIM domain, a unique cysteine-rich zinc-binding domain. The encoded protein is a transcription factor involved in the control of differentiation and development of the pituitary gland. Mutations in this gene cause combined pituitary hormone deficiency 4. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG204014