

Product datasheet for **RG232589**

LHX6 (NM_001242333) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHX6 (NM_001242333) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LHX6
Synonyms:	LHX6.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232589 representing NM_001242333 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCCGGGGTTGTGCCGGCGCAGCGCTGAGAATCCCGACGCGGGGCCGGTGATGGCCAGCCAGGGT
CCGGCTGCAAAGCGACCACCCGCTGTCTTGAAGGGACCGCGCCGCCATGGCTCAGTCTGACGCCGA
GGCCCTGGCAGGAGCTCTGGACAAGGACGAGGGTCAAGGCTCCCATGTACGCCAGCAGCCATCTGTC
TGCTCACCGCCCTCTGCCGCTCCTCCGTGCCGTCTGCAGGCAAGAACATCTGCTCCAGTGCAGCCCTCG
AGATCCTGGACCGATATCTGCTCAAGTCAACAACCTCATCTGGCACGTGCGGTGCCTCGAGTGCCTCGT
GTGTCGCACGTGCTGAGGCAGCAGAAGCTGCTACATCAAGAACAAGGAGATCTTCTGCAAGATGGAC
TACTTCAGCCGATTTCGGGACCAAGTGTGCCCGGTGCGGCCGACAGATCTACGCCAGCGACTGGGTGCGGA
GAGCTCGCGGCAACGCCTACCACCTGGCCTGCTTCGCCTGCTTCTCGTGAAGCGCCAGCTGTCCACTGG
TGAGGAGTTTCGGCCTGGTCGAGGAGAAGGTGCTCTGCCGATCCACTACGACACCATGATTGAGAACCTC
AAGAGGGCCGCCGAGAACGGGAACGGCCTCACGTTGGAGGGGGCAGTGCCTCGGAACAGGACAGTCAAC
CCAAGCCGGCCAAGCGCGCGGACGTCCTTACC CGGGAACAGCTGCAGGTTATGCAGGCGCAGTTCGC
GCAGGACAACAACCCGACGCTCAGACGCTGCAGAAGCTGGCGGACATGACGGCCCTCAGCCGGAGATC
ATCCAGGTGTGGTTTCAAACCTGCCGGGCGGTCATAAAAAGCACACGCCGCAACACCCAGTGGCCCTC
CGGGGGCGCCCGTCCCGCCTTCCCTCCGCCCTGTCCGACGACATCCACTACACCCGTTCCAGCAGCCC
CGAGCGGGCGCGCATGGTCACCCTGCACGGCTACATTGAGAGTATCCTTTTTTCAGTACTAACGCTGCCG
GCACTTCCGATCTGCCGTGGGCGCCCAACAGCTGCCCTCAGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232589 representing NM_001242333
 Red=Cloning site Green=Tags(s)

MRRGLCRRSAENPDAGPVMAQPGSGCKATTRCLEGTAPPAMAQSDAEALAGALDKDEGQASPCTPSTPSV
 CSPPSAASSVPSAGKNICSSCGLEILDYRLLKVNLIWHVRCLECSVCRTSLRQQNSCYIKNKEIFCKMD
 YFSRFGTKCARCGRIYASDWVRRARGNAYHLACFCFCKRQLSTGEFGLVEEKVLCRIHYDTMIENL
 KRAAENGNLTLEGAVPSEQDSQPKPAKRARTSFTAQLQVMQAQFAQDNNPDAQTLQLKADMTGLSRRV
 IQVWFQNCRARHKKHTPQHPVPPSGAPPSRLPSALSDDIHYTPFSSPERARMVTLHGYYIESHPFVLTLP
 ALPHLPVGAPQLPLSR

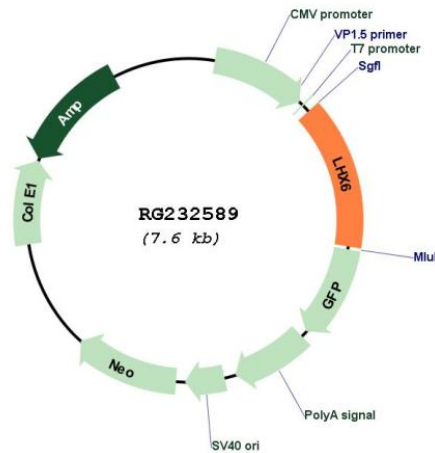
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242333

ORF Size:	1098 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:	<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_001242333.2
RefSeq Size:	3306 bp
RefSeq ORF:	1101 bp
Locus ID:	26468
UniProt ID:	Q9UPM6
Cytogenetics:	9q33.2
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a member of a large protein family that contains the LIM domain, a unique cysteine-rich zinc-binding domain. The encoded protein has tandem LIM domains as well as a DNA-binding homeodomain. The protein functions as a transcription factor involved in embryogenesis and head development and is highly expressed in neural crest derived mesenchyme cells. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2017]