

Product datasheet for **RG232583**

LHX6 (NM_001242334) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LHX6 (NM_001242334) 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:	>RG232583 representing NM_001242334 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCCAGGGTCCGGCTGCAAAGCGACCACCCGCTGTCTTGAAGGGACCGCGCCGCCATGG
CTCAGTCTGACGCCGAGGCCCTGGCAGGAGCTCTGGACAAGGACGAGGGTCAGGCCTCCCATGTACGCC
CAGCACGCCATCTGTCTGCTCACCGCCCTCTGCCGCTCCTCCGTGCCGTCTGCAGGCAAGAACATCTGC
TCCAGTGCAGCCCTCGAGATCCTGGACCGATATCTGCTCAAGGTCAACAACCTCATCTGGCAGTGCAGT
GCCTCGAGTGCCTCGTGTGTCGACGCTGCTGAGGCAGCAGAACAGCTGCTACATCAAGAACAAGGAGAT
CTTCTGCAAGATGGACTACTTCAGCCGATTCGGGACCAAGTGTGCCCGGTGCGGCCGACAGATCTACGCC
AGCGACTGGGTGCGGAGAGCTCGCGCAACGCCTACCACCTGGCCTGCTTCGCCTGCTTCTCGTGAAGC
GCCAGTGTCCACTGGTGAAGGTTTCGGCTGGTTCGAGGAGAAGGTGCTCTGCCGCATCCACTACGACAC
CATGATTGAGAACCTCAAGAGGGCCGCCGAGAACGGGAACGGCCTCACGTTGGAGGGGCGAGTGCCTCG
GAACAGGACAGTCAACCAAGCCGGCAAGCGCGCGGGACGCTCCTTACCCGCGGAACAGCTGCAGGTTA
TGCAGGCGCAGTTCGCGCAGGACAACAACCCCGACGCTCAGACGCTGCAGAAGCTGGCGGACATGACGGG
CCTCAGCCGAGAGTCACTCAGGTGTGGTTTCAAACCTGCCGGGCGCGTCATAAAAAGCACACGCCGCAA
CACCCAGTCCCGCCCTCGGGGGCGCCCGTCCCGCCTCCCTCCGCCGTGTCGACGACATCCACTACA
CCCCGTTTCAGCAGCCCCGAGCGGGCGCGCATGGTCACCCTGCACGGCTACATTGAGAGTCAGGTACAGTG
CGGGCAGGTGCACTGCCGCTGCCTTACACCGCACCCCGTCCACCTCAAAGCCGATATGGATGGGCC
CTCTCAAACCGGGGTGAGAAGGTCATCCTTTTTAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232583 representing NM_001242334
 Red=Cloning site Green=Tags(s)

MAQPGSGCKATTRCLEGTAPPAMAQSDAEALAGALDKDEGQASPCTPSTPSVCSPPSAASSVPSAGKNIC
 SSCGLEILDYRLLKVNLIWHVRCLECSVCRTSLRQQNSCYIKNKEIFCKMDYFSRFGTKCARCGRQIYA
 SDWYRRARGNAYHLACFACFSCKRQLSTGEEFGLVEEKVLCRIHYDTMIENLKRAAENGLTLEGAVPS
 EQDSQPKPAKRARTSFTAELQVMQAQFAQDNNPDAQTLQKLADMTGLSRRVIQVWFQNCRARHKKHTPQ
 HPVPPSGAPPSRLPSALSDDIHYTPFSSPERARMVTLHGVIYESQVQCQGVHCRLLPYTAPPVHLKADM DGP
 LSNRGEKVIILFQY

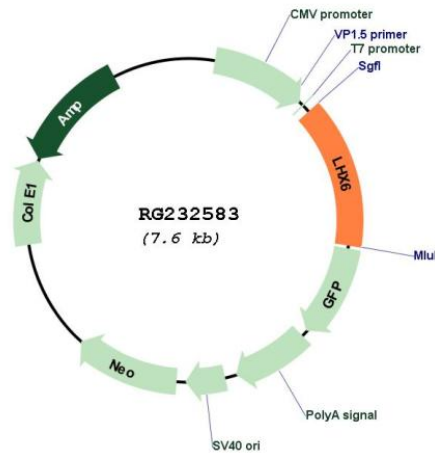
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242334

ORF Size:	1089 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_001242334.2
RefSeq Size:	3394 bp
RefSeq ORF:	1092 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]