

Product datasheet for **RC230007**

LMX1B (NM_001174147) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	LMX1B
Synonyms:	FSGS10; LMX1.2; NPS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC230007 representing NM_001174147
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATATAGCAACAGGTCCCGAGTCGCTGGAGAGGTGCTTCCCTCGCGGGCAGACGGACTGCGCCAAGA
TGTTGGACGGCATCAAGATGGAGGAGCACGCCCTGCGCCCCGGGCCCGCCACTCTGGGGGTGCTGCTGGG
CTCCGACTGCCCGCATCCCGCGCTGCGAGGGCTGCCAGCGGCCCATCTCCGACCGCTTCTGATGCGA
GTCAACGAGTCGTCTGGCAGCAGGAGTGTTCAGTGCCTGGCGGTGTGTCAGCAAGCCCTCACCACAGCT
GCTACTTCCGGATCGGAACTGTACTGCAACAAGACTACCAACAGCTTTCGCGGCCAAGTGACGCGG
CTGCATGGAGAAGATCGCCCCACCGAGTTCGTGATGCGGGCGCTGGAGTGCCTGTACCACTGGGCTGC
TTCTGCTGCTGCGTGTGTGAACGGCAGCTACGCAAGGGCGACGAATTCGTGCTCAAGGAGGGCCAGCTGC
TGTGCAAGGGTGACTACGAGAAGGAGAAGGACCTGCTCAGCTCCGTGAGCCCCGACGAGTCCGACTCCGT
GAAGAGCGAGGATGAAGATGGGGACATGAAGCCGGCCAAGGGGCAGGGCAGTCAGAGCAAGGGCAGCGGG
GATGACGGGAAGGACCCGCGGAGGCCAAGCGACCCCGGACCATCCTCACCACGACGAGCGAAGAGCCT
TCAAGGCCTCCTTCGAGGTCTCGTGAAGCCTTGCCGAAAGGTCCGAGAGACTGGCAGCTGAGACGGG
CCTCAGTGTGCGCGTGGTCCAGGTCTGGTTTCAGAACCAAGAGCAAAGATGAAGAAGCTGGCGCGGCGG
CACCAGCAGCAGCAGGAGCAGCAGAACTCCAGCGGCTGGGCCAGGAGTCTGTCCAGCCGCATGGAGG
GCATGATGGCTTCTACACGCCCTGGCCCCACACAGCAGCAGATCGTGGCCATGGAACAGAGGCCCTA
CGGCAGCAGCGACCCCTCCAGCAGGGCTCACGCCGCCCAAATGCCAGGTGACCACATGAACCCCTAT
GGGAACGACTCCATCTTCATGACATCGACAGCGATACCTCCTTAACGACCTCAGCGACTGCTTCTCG
GCTCCTCAGACGTGGGCTCCCTGCAGGCCCGCTGGGGAACCCATCGACCGGCTCTACTCCATGCAGAG
TTCCTACTTCGCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGTTTAA



Protein Sequence:

>RC230007 representing NM_001174147

Red=Cloning site Green=Tags(s)

MDIATGPESLERCFRGQTDCAKMLDGIKMEEHALRPGPATLGVLGSDCPHAVCEGCQRPISDRFLMR
VNESSWHEELQCAACQQUALTTSCYFRDRKLYCKQDYQQLFAAKCSGCMKFIAPTEFVMRALECVYHLGC
FCCVCERQLRKGFVFLKEGQLLCKGDYEKEKDLLSSVSPDESDSVKSEDEDGDMKPAKGQSQSKGSG
DDGKDPRRPKRPRTILTQQRAFKASFEVSSKPCRKVRETLAAETGLSVRVVQVWFQNRKMKKLARR
HQQQQEQQNSQRLGQEVLSRMEGMMASYTLPAPPQQIVAMEQSPYGSDDPFQQGLTPPQMPGDHMPY
GNDSIFHDIDSDTSLTSLSDCLGSSDVGSLQARVGNPIDRLYSMQSSYFAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

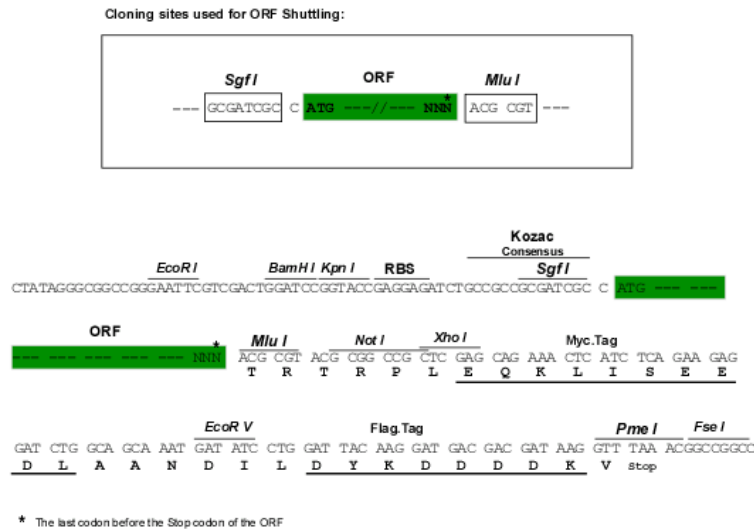
Chromatograms:

https://cdn.origene.com/chromatograms/mk8057_d10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001174147

ORF Size:

1206 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:

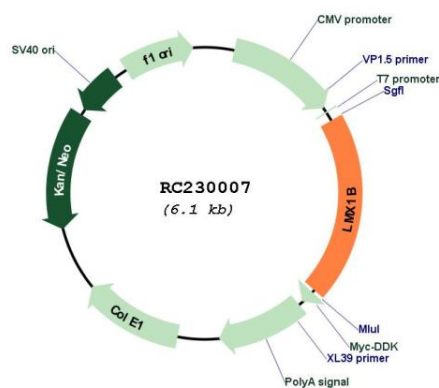
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

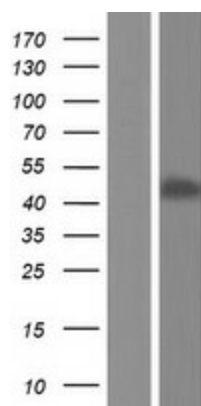
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001174147.2</u>
RefSeq ORF:	1209 bp
Locus ID:	4010
UniProt ID:	<u>O60663</u>
Cytogenetics:	9q33.3
Protein Families:	Transcription Factors
MW:	45.4 kDa
Gene Summary:	This gene encodes a member of LIM-homeodomain family of proteins containing two N-terminal zinc-binding LIM domains, 1 homeodomain, and a C-terminal glutamine-rich domain. It functions as a transcription factor, and is essential for the normal development of dorsal limb structures, the glomerular basement membrane, the anterior segment of the eye, and dopaminergic and serotonergic neurons. Mutations in this gene are associated with nail-patella syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC230007



Western blot validation of overexpression lysate (Cat# [LY433007]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230007 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).