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Product datasheet for RC230016

LMX1B (NM_001174146) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LMX1B (NM_001174146) Human Tagged ORF Clone
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:

>RC230016 representing NM_001174146
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATATAGCAACAGGTCCCGAGTCGCTGGAGAGGTGCTTCCCTCGCGGGCAGACGGACTGCGCCAAGA
TGTTGGACGGCATCAAGATGGAGGAGCACGCCCTGCGCCCCGGGCCCGCCACTCTGGGGGTGCTGCTGGG
CTCCGACTGCCCGCATCCCGCCGTCTGCGAGGGCTGCCAGCGGCCCATCTCCGACCGCTTCCTGATGCGA
GTCAACGAGTCGTCCTGGCACGAGGAGTGTTTGCAGTGCGCGGCGTGTCAGCAAGCCCTCACCACCAGCT
GCTACTTCCGGGATCGGAAACTGTACTGCAAACAAGACTACCAACAGCTCTTCGCGGCCAAGTGCAGCGG
CTGCATGGAGAAGATCGCCCCCACCGAGTTCGTGATGCGGGCGCTGGAGTGCGTGTACCACCTGGGCTGC
TTCTGCTGCTGCGTGTGTGAACGGCAGCTACGCAAGGGCGACGAATTCGTGCTCAAGGAGGGCCAGCTGC
TGTGCAAGGGTGACTACGAGAAGGAGAAGGACCTGCTCAGCTCCGTGAGCCCCGACGAGTCCGACTCCGT
GAAGAGCGAGGATGAAGATGGGGACATGAAGCCGGCCAAGGGGCAGGGCAGTCAGAGCAAGGGCAGCGGG
GATGACGGGAAGGACCCGCGGAGGCCCAAGCGACCCCGGACCATCCTCACCACGCAGCAGCGAAGAGCCT
TCAAGGCCTCCTTCGAGGTCTCGTCGAAGCCTTGCCGAAAGGTCCGAGAGACACTGGCAGCTGAGACGGG
CCTCAGTGTGCGCGTGGTCCAGGTCTGGTTTCAGAACCAAAGAGCAAAGATGAAGAAGCTGGCGCGGCGG
CACCAGCAGCAGCAGGAGCAGCAGAACTCCCAGCGGCTGGGCCAGGGTGAGCCGGGGCCGGGGCAGGGCC
TGGGCCAGGAGGTCCTGTCCAGCCGCATGGAGGGCATGATGGCTTCCTACACGCCGCTGGCCCCACCACA
GCAGCAGATCGTGGCCATGGAACAGAGCCCCTACGGCAGCAGCGACCCCTTCCAGCAGGGCCTCACGCCG
CCCCAAATGCCAGGGAACGACTCCATCTTCCATGACATCGACAGCGATACCTCCTTAACCAGCCTCAGCG
ACTGCTTCCTCGGCTCCTCAGACGTGGGCTCCCTGCAGGCCCGCGTGGGGAACCCCATCGACCGGCTCTA
CTCCATGCAGAGTTCCTACTTCGCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC230016 representing NM_001174146
Red=Cloning site Green=Tags(s)

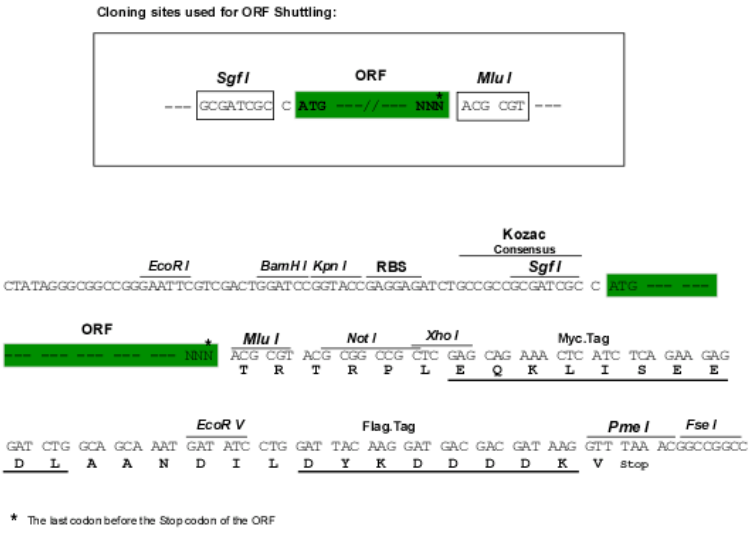
MDIATGPESLERCFPRGQTDCAKMLDGIKMEEHALRPGPATLGVLLGSDCPHPAVCEGCQRPISDRFLMR
VNESSWHEECLQCAACQQALTTSCYFRDRKLYCKQDYQQLFAAKCSGCMEKIAPTEFVMRALECVYHLGC
FCCCVCERQLRKGDEFVLKEGQLLCKGDYEKEKDLLSSVSPDESDSVKSEDEDGDMKPAKGQGSQSKGSG
DDGKDPRRPKRPRTILTTQQRRAFKASFEVSSKPCRKVRETLAAETGLSVRVVQVWFQNQRAKMKKLARR
HQQQQEQQNSQRLGQGEPGPGQGLGQEVLSSRMEGMMASYTPLAPPQQQIVAMEQSPYGSSDPFQQGLTP
PQMPGNDSIFHDIDSDTSLTSLSDCFLGSSDVGSLQARVGNPIDRLYSMQSSYFAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8037_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001174146

ORF Size: 1218 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_001174146.2

RefSeq ORF: 1221 bp

Locus ID: 4010

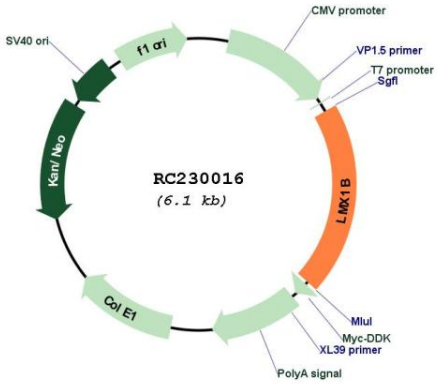
Cytogenetics: 9q33.3

Protein Families: Transcription Factors

MW: 45.5 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 RC230016