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Product datasheet for RG210188

LMX1B (NM_002316) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LMX1B (NM_002316) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LMX1B
Synonyms:	FSGS10; LMX1.2; NPS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG210188 representing NM_002316
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGGACGGCATCAAGATGGAGGAGCACGCCCTGCGCCCCGGGCCCGCCACTCTGGGGGTGCTGCTGG
GCTCCGACTGCCCGCATCCCGCCGTCTGCGAGGGCTGCCAGCGGCCCATCTCCGACCGCTTCCTGATGCG
AGTCAACGAGTCGTCCTGGCACGAGGAGTGTTTGCAGTGCGCGGCGTGTCAGCAAGCCCTCACCACCAGC
TGCTACTTCCGGGATCGGAAACTGTACTGCAAACAAGACTACCAACAGCTCTTCGCGGCCAAGTGCAGCG
GCTGCATGGAGAAGATCGCCCCCACCGAGTTCGTGATGCGGGCGCTGGAGTGCGTGTACCACCTGGGCTG
CTTCTGCTGCTGCGTGTGTGAGCGGCAGCTACGCAAGGGCGACGAATTCGTGCTCAAGGAGGGCCAGCTG
CTGTGCAAGGGTGACTACGAGAAGGAGAAGGACCTGCTCAGCTCCGTGAGCCCCGACGAGTCCGACTCCG
TGAAGAGCGAGGATGAAGATGGGGACATGAAGCCGGCCAAGGGGCAGGGCAGTCAGAGCAAGGGCAGCGG
GGATGACGGGAAGGACCCGCGGAGGCCCAAGCGACCCCGGACCATCCTCACCACGCAGCAGCGAAGAGCC
TTCAAGGCCTCCTTCGAGGTCTCGTCCAAGCCTTGCCGAAAGGTCCGAGAGACACTGGCAGCTGAGACGG
GCCTCAGTGTGCGCGTGGTCCAGGTCTGGTTTCAGAACCAAAGAGCAAAGATGAAGAAGCTGGCGCGGCG
GCACCAGCAGCAGCAGGAGCAGCAGAACTCCCAGCGGCTGGGCCAGGAGGTCCTGTCCAGCCGCATGGAG
GGCATGATGGCTTCCTACACGCCGCTGGCCCCACCACAGCAGCAGATCGTGGCCATGGAACAGAGCCCCT
ACGGCAGCAGCGACCCCTTCCAGCAGGGCCTCACGCCGCCCCAAATGCCAGGGAACGACTCCATCTTCCA
TGACATCGACAGCGATACCTCCTTAACCAGCCTCAGCGACTGCTTCCTCGGCTCCTCAGACGTGGGCTCC
CTGCAGGCCCGCGTGGGGAACCCCATCGACCGGCTCTACTCCATGCAGAGTTCCTACTTCGCCTCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

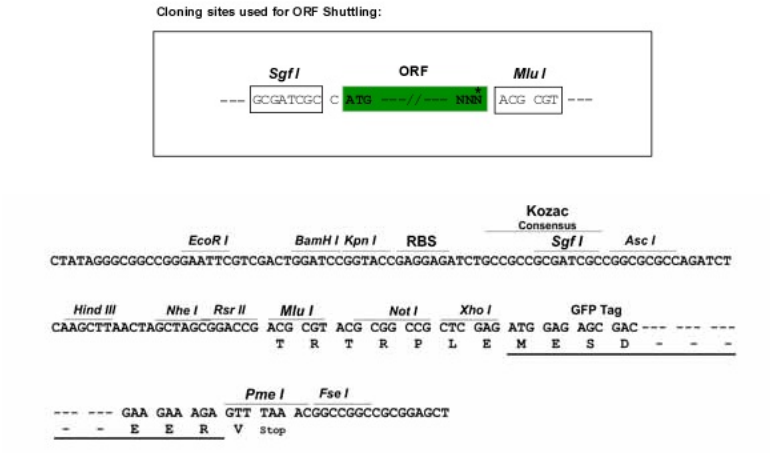
>RG210188 representing NM_002316
Red=Cloning site Green=Tags(s)

MLDGIKMEEHALRPGPATLGVLLGSDCPHPAVCEGCQRPISDRFLMRVNESSWHEECLQCAACQQALTTS
CYFRDRKLYCKQDYQQLFAAKCSGCMEKIAPTEFVMRALECVYHLGCFCCCVCERQLRKGDEFVLKEGQL
LCKGDYEKEKDLLSSVSPDESDSVKSEDEDGDMKPAKGQGSQSKGSGDDGKDPRRPKRPRTILTTQQRRA
FKASFEVSSKPCRKVRETLAAETGLSVRVVQVWFQNQRAKMKKLARRHQQQQEQQNSQRLGQEVLSSRME
GMMASYTPLAPPQQQIVAMEQSPYGSSDPFQQGLTPPQMPGNDSIFHDIDSDTSLTSLSDCFLGSSDVGS
LQARVGNPIDRLYSMQSSYFAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002316

ORF Size: 1118 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: NM_002316.1, NP_002307.1

RefSeq Size: 1119 bp

RefSeq ORF: 1188 bp

Locus ID: 4010

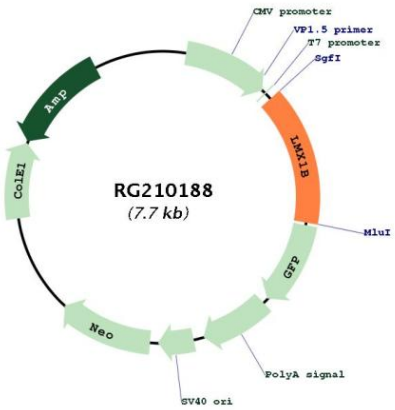
UniProt ID: O60663

Cytogenetics: 9q33.3

Protein Families: Transcription Factors

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 RG210188