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Product datasheet for SC328645

LMX1B (NM_001174147) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LMX1B (NM_001174147) Human Untagged Clone
Tag:	Tag Free
Symbol:	LMX1B
Synonyms:	FSGS10; LMX1.2; NPS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328645 representing NM_001174147. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGATATAGCAACAGGTCCCGAGTCGCTGGAGAGGTGCTTCCCTCGCGGGCAGACGGACTGCGCCAAG ATGTTGGACGGCATCAAGATGGAGGAGCACGCCCTGCGCCCCGGGCCCGCCACTCTGGGGGTGCTGCTG GGCTCCGACTGCCCGCATCCCGCCGTCTGCGAGGGCTGCCAGCGGCCCATCTCCGACCGCTTCCTGATG CGAGTCAACGAGTCGTCCTGGCACGAGGAGTGTTTGCAGTGCGCGGCGTGTCAGCAAGCCCTCACCACC AGCTGCTACTTCCGGGATCGGAAACTGTACTGCAAACAAGACTACCAACAGCTCTTCGCGGCCAAGTGC AGCGGCTGCATGGAGAAGATCGCCCCCACCGAGTTCGTGATGCGGGCGCTGGAGTGCGTGTACCACCTG GGCTGCTTCTGCTGCTGCGTGTGTGAACGGCAGCTACGCAAGGGCGACGAATTCGTGCTCAAGGAGGGC CAGCTGCTGTGCAAGGGTGACTACGAGAAGGAGAAGGACCTGCTCAGCTCCGTGAGCCCCGACGAGTCC GACTCCGTGAAGAGCGAGGATGAAGATGGGGACATGAAGCCGGCCAAGGGGCAGGGCAGTCAGAGCAAG GGCAGCGGGGATGACGGGAAGGACCCGCGGAGGCCCAAGCGACCCCGGACCATCCTCACCACGCAGCAG CGAAGAGCCTTCAAGGCCTCCTTCGAGGTCTCGTCGAAGCCTTGCCGAAAGGTCCGAGAGACACTGGCA GCTGAGACGGGCCTCAGTGTGCGCGTGGTCCAGGTCTGGTTTCAGAACCAAAGAGCAAAGATGAAGAAG CTGGCGCGGCGGCACCAGCAGCAGCAGGAGCAGCAGAACTCCCAGCGGCTGGGCCAGGAGGTCCTGTCC AGCCGCATGGAGGGCATGATGGCTTCCTACACGCCGCTGGCCCCACCACAGCAGCAGATCGTGGCCATG GAACAGAGCCCCTACGGCAGCAGCGACCCCTTCCAGCAGGGCCTCACGCCGCCCCAAATGCCAGGTGAC CACATGAACCCCTATGGGAACGACTCCATCTTCCATGACATCGACAGCGATACCTCCTTAACCAGCCTC AGCGACTGCTTCCTCGGCTCCTCAGACGTGGGCTCCCTGCAGGCCCGCGTGGGGAACCCCATCGACCGG CTCTACTCCATGCAGAGTTCCTACTTCGCCTCCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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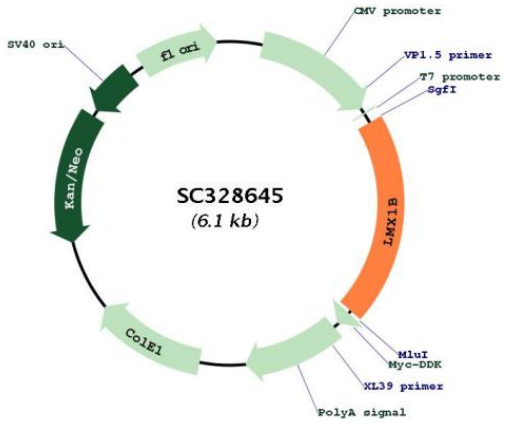
Plasmid Map:



ACCN:	NM_001174147
Insert Size:	1209 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001174147.1
RefSeq Size:	5804 bp
RefSeq ORF:	1209 bp
Locus ID:	4010
UniProt ID:	O60663
Cytogenetics:	9q33.3

Protein Families:	Transcription Factors
MW:	44.9 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] Transcript Variant: This variant (2) uses an alternate donor splice site at the penultimate coding exon compared to variant 1, resulting in a longer isoform (2) containing an additional 7 aa protein segment compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.