

## Product datasheet for **RG230016**

### LMX1B (NM\_001174146) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LMX1B (NM_001174146) 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:	>RG230016 representing NM_001174146 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATATAGCAACAGGTCCCGAGTCGCTGGAGAGGTGCTTCCTCGCGGCAGACGGACTGCGCCAAGA  
TGTTGGACGGCATCAAGATGGAGGAGCACGCCCTGCGCCCCGGGCCCACTCTGGGGTGCTGCTGGG  
CTCCGACTGCCCGCATCCCGCGTCTGCGAGGGTCCAGCGGCCATCTCCGACCGTCTCTGATGCGA  
GTCAACGAGTCGTCCTGGCAGGAGGTGTTTGCAGTGCAGCGCGTGTGTCAGCAAGCCCTCACCACGCT  
GCTACTCCGGGATCGGAACTGTACTGCAACAAGACTACCAACAGCTTTCGCGGCCAAGTGCAGCGG  
CTGCATGGAGAAGATCGCCCCACCGAGTTCGTGATGCGGGCGCTGGAGTGCCTGTACCACCTGGGCTGC  
TTCTGCTGCTGCGTGTGTGAACGGCAGCTACGCAAGGGCGACGAATTCGTGCTCAAGGAGGGCCAGCTGC  
TGTGCAAGGGTGACTACGAGAAGGAGAAGGACCTGCTCAGCTCCGTGAGCCCCGACGAGTCCGACTCCGT  
GAAGAGCGAGGATGAAGATGGGGACATGAAGCCGGCCAAGGGGCAGGGCAGTCCAGAGCAAGGGCAGCGGG  
GATGACGGGAAGGACCCGCGGAGGCCAAGCGACCCCGGACCATCCTCACCACGCAGCAGCGAAGAGCCT  
TCAAGGCTCCTTCGAGGTCTCGTCAAGCCTTGCCGAAAGGTCCGAGAGACTGGCAGCTGAGACGGG  
CCTCAGTGTGCGGTGGTCCAGGTCTGGTTTCAGAACCAAGAGCAAAGATGAAGAAGCTGGCGCGGGC  
CACCAGCAGCAGGAGCAGCAGAATCCAGCGGCTGGGCCAGGGTGTAGCCGGGCGGGGCAGGGCC  
TGGGCCAGGAGGTCTGTCCAGCCGATGGAGGGCATGATGGCTTCTACACGCCGCTGGCCCCACCACA  
GCAGCAGATCGTGCCATGGAACAGAGCCCTACGGCAGCAGCAGCCCTTCCAGCAGGGCCTCACGCCG  
CCCCAAATGCCAGGGAACGACTCCATCTTCCATGACATCGACAGCGATACCTCCTTAACCAGCCTCAGCG  
ACTGCTTCTCGGCTCCTCAGACGTGGGCTCCCTGCAGGCCCGCTGGGGAACCCCATCGACCGGCTCTA  
CTCCATGCAGAGTTCCTACTTCGCCTCC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG230016 representing NM\_001174146  
Red=Cloning site Green=Tags(s)

MDIATGPESLERCFPRGQTDCAKMLDGIKMEEHALRPGPATLGVLLGSDCPHPAVCEGCQRPISDRFLMR  
 VNESSWHEECLQCAACQQLTTSCYFRDRKLYCKQDYQLFAAKCSGCKEIAPTFVIMRALECVYHLGC  
 FCCVCERQLRKGDEFVLKQGLLCKGDYEKEDLLSSVSPDESDSVKSEDEDGDMKPAKGQGSQSKGSG  
 DDGKDPRRPKRPTILTTQRRAFKASFEVSSKPCRKVRETLAAETGLSVRVVQVWFQNRAKMKKLARR  
 HQQQEQNSQRLGQGEFGPQGLGQEVLSRMEGMMASYTPLAPPQQQIVAMEQSPYGSSDPFQQLTP  
 PQMPGNDISIFHDIDSDTSLTSLSDCFLGSSDVGSLQARVGNPIDRLYSMQSSYFAS

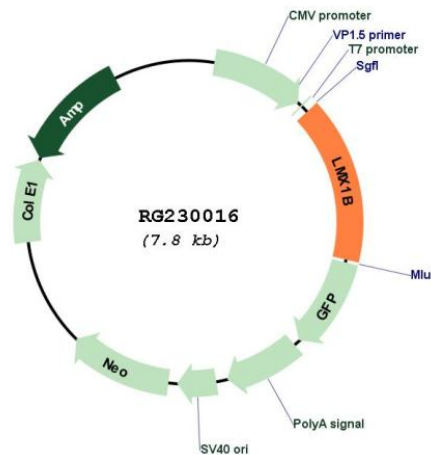
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001174146

<b>ORF Size:</b>	1218 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001174146.2</a>
<b>RefSeq Size:</b>	5816 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	4010
<b>Cytogenetics:</b>	9q33.3
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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]