

## Product datasheet for **RG230007**

### LMX1B (NM\_001174147) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LMX1B (NM_001174147) 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:	>RG230007 representing NM_001174147 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATATAGCAACAGGTCCCGAGTCGCTGGAGAGGTGCTTCCTCGCGGCAGACGGACTGCGCCAAGA  
TGTTGGACGGCATCAAGATGGAGGAGCACGCCCTGCGCCCGGGCCGCACTCTGGGGTGCTGCTGGG  
CTCCGACTGCCCGCATCCCGCGTCTGCGAGGGCTGCCAGCGGCCATCTCCGACCGTTCCTGATGCGA  
GTCAACGAGTCGTCCTGGCAGGAGGTGTTTGCAGTGCAGCGCGTGTGTCAGCAAGCCCTCACCACGCT  
GCTACTTCGGGATCGGAACTGTACTGCAACAAGACTACCAACAGCTTTCGCGGCCAAGTGCAGCGG  
CTGCATGGAGAAGATCGCCCCACCGAGTTCGTGATGCGGGCGCTGGAGTGCCTGTACCACCTGGGCTGC  
TTCTGCTGCTGCGTGTGTGAACGGCAGCTACGCAAGGGCGACGAATTCGTGCTCAAGGAGGGCCAGCTGC  
TGTGCAAGGGTGACTACGAGAAGGAGAAGGACCTGCTCAGCTCCGTGAGCCCCGACGAGTCCGACTCCGT  
GAAGAGCGAGGATGAAGATGGGGACATGAAGCCGGCCAAGGGGCAGGGCAGTCAGAGCAAGGGCAGCGGG  
GATGACGGGAAGGACCCGCGGAGGCCAAGCGACCCCGGACCATCCTCACCACGCAGCAGCGAAGAGCCT  
TCAAGGCTCCTTCGAGGTCTCGTCAAGCCTTGCCGAAAGGTCCGAGAGACTGGCAGCTGAGACGGG  
CCTCAGTGTGCGGTGGTCCAGGTCTGGTTTCAGAACCAAGAGCAAAGATGAAGAAGCTGGCGCGCGG  
CACCAGCAGCAGGAGCAGCAACTCCAGCGGCTGGCCAGGAGTCTGTCCAGCCGATGGAGG  
GCATGATGGCTTCTACAGCCGCTGGCCACCACAGCAGCAGATCGTGGCCATGGAACAGAGCCCTA  
CGGCAGCAGCAGCCCTTCCAGCAGGGCTCACGCCGCCCAAATGCCAGGTGACCACATGAACCCCTAT  
GGGAACGACTCCATCTTCCATGACATCGACAGCGATACCTCCTTAACCAGCCTCAGCGACTGCTTCTCG  
GCTCCTCAGAGTGGGCTCCCTGCAGGCCCGCTGGGAAACCCATCGACCGGCTCTACTCCATGCAGAG  
TTCCTACTTCGCCTCC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

**Protein Sequence:** >RG230007 representing NM\_001174147  
 Red=Cloning site Green=Tags(s)

MDIATGPESLERCFPRGQTDCAKMLDGIKMEEHALRPGPATLGVLLGSDCPHPAVCEGCQRPISDRFLMR  
 VNESSWHEECLQCAACQQLTTSCYFRDRKLYCKQDYQLFAAKCSGCKMEKIAPTEFVMRALECVYHLGC  
 FCCVCERQLRKGDEFVLKQGLLCKGDYEKEDLLSSVSPDESDSVKSEDEDGDMKPAKGGQSQSKGSG  
 DDGKDPRRPRKRPRTILTTQRRAFKASFEVSSKPCRKVRETLAAETGLSVRVVQVWFQNRQAKMKKLARR  
 HQQQEQQNSQRLGQEVLLSSRMEGMMASYTPLAPPQQQIVAMEQSPYGSSDPFQQGLTPPQMPGDHMNPY  
 GNDSIFHDIDSDTSLTSLSDCFLGSSDVGSLQARVGNPIDRLYSMQSSYFAS

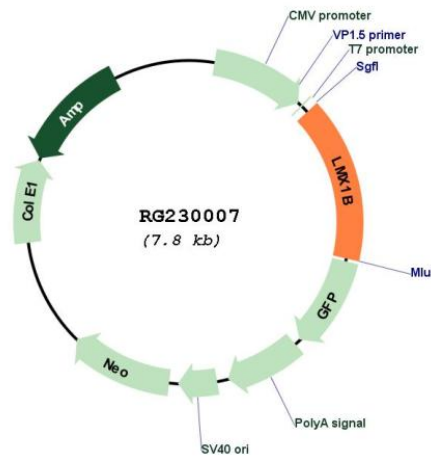
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001174147

<b>ORF Size:</b>	1206 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_001174147.2</a>
<b>RefSeq Size:</b>	5804 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	4010
<b>UniProt ID:</b>	<a href="#">O60663</a>
<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]