

## Product datasheet for **SC307086**

### LMX1A (NM\_177398) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LMX1A (NM_177398) Human Untagged Clone
Tag:	Tag Free
Symbol:	LMX1A
Synonyms:	DFNA7; LMX1; LMX1.1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001174069 edited GGTACCCCGAACATGCTGGACGGCCTAAAGATGGAGGAGAAGCTTCCAAAGCGCGATCGAC ACCTCGGCCTCCTTCTCCTCGTGCTGGGCAGAGCGGTGAGCCCCAAGTCTGCTGCGAG GGCTGTCAGCGGGTTCATCTTGGACAGGTTTCTGCTGCGGCTCAACGACAGCTTCTGGCAT GAGCAGTGCCTGCACTGCGCCTCTGCAAAGAGCCCTGGAGACCACCTGCTTCTACCGG GACAAGAAGCTGTACTGCAAGTATGACTACGAGAAGCTGTTTGCTGTTAAATGTGGGGGC TGCTTCGAGGCCATCGCTCCCAATGAGTTTGTATGCGGGCCAGAAAGAGTGTATACCAC CTGAGCTGCTTCTGCTGTGTCTGCGAGCGACAGCTTCAGAAGGGTATGAGTTTGTCT CTGAAGGAGGGGAGCTGCTCTGCAAAGGGGACTATGAGAAGGAGCGGGAGCTGCTCAGC CTGGTGAGCCCAGCAGCCTCAGACTCAGGTAAGTATGATGATGAAGAAAGTCTCTGCAAG TCAGCCCATGGGGCAGGAAAGGAACTGCTGAGGAAGGCAAGGACCATAAGCGCCCCAAA CGTCCGAGAACCATCTTGACAACCAACAGAGGGGAGCATTCAAGGCCTCATTGAAAGTA TCTCCAAGCCCTGCAGGAAGGTGAGAGAGACTCTGGCTGCAGAGACAGGGCTGAGTGTC CGTGTCGTCCAGGTGTGGTTCCAAAACCAGAGAGCGAAGATGAAGAAGCTGGCCAGGCGA CAGCAGCAGCAGCAAGATCAGCAGAACACCCAGAGGCTGAGCTCTGCTCAGACAAAC GGTGGTGGGAGTGTGGGATGGAAGGAATCATGAACCCCTACACGGCTCTGCCACCCCA CAGCAGCTCCTGGCCATCGAGCAGAGTGTCTACAGCTCAGATCCCTTCCGACAGGGTCTC ACCCACCCAGATGCCTGGAGACCACATGCACCCTTATGGTGCCGAGCCCTTTTCCAT GACCTGGATAGCGACGACACCTCCCTCAGTAACCTGGGTGACTGTTTCTAGCAACCTCA GAAGTGGCCTCTGCAGTCCAGAGTGGGAAACCCATTGACCATCTGTACTCCATGCAG AATTCTTACTTCACATCTTGATCTAGA
Restriction Sites:	Please inquire
ACCN:	NM_177398
Insert Size:	1200 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<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>	<u><a href="#">NM_177398.2</a></u> , <u><a href="#">NP_796372.1</a></u>
<b>RefSeq Size:</b>	3382 bp
<b>RefSeq ORF:</b>	1149 bp
<b>Locus ID:</b>	4009
<b>UniProt ID:</b>	<u><a href="#">Q8TE12</a></u>
<b>Cytogenetics:</b>	1q23.3
<b>Protein Families:</b>	ES Cell Differentiation/IPS, Transcription Factors
<b>Gene Summary:</b>	<p>This gene encodes a homeodomain and LIM-domain containing protein. The encoded protein is a transcription factor that acts as a positive regulator of insulin gene transcription. This gene also plays a role in the development of dopamine producing neurons during embryogenesis. Mutations in this gene are associated with an increased risk of developing Parkinson's disease. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2012]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 4 encode the same protein.</p>