

Product datasheet for RC215375

LMX1A (NM_177398) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LMX1A (NM_177398) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LMX1A
Synonyms:	DFNA7; LMX1; LMX1.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215375 representing NM_177398 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCTGGACGGCCTAAAGATGGAGGAGAACTTCCAAAGCGCGATCGACACCTCGGCCTCCTTCTCCTCGC
TGCTGGGCGAGCGGTGAGCCCCAAGTCTGTCTGCGAGGGCTGTCAGCGGGTCATCTTGGACAGGTTTCT
GCTGCGGCTCAACGACAGCTTCTGGCATGAGCAGTGCCTGCGAGTGCCTCTGCAAAGAGCCCCCTGGAG
ACCACCTGCTTCTACCGGACAAGAAGCTGTACTGCAAGTATGACTACGAGAAGCTGTTTGTGTTAAAT
GTGGGGGCTGCTTCGAGGCCATCGCTCCCAATGAGTTTGTATGCGGGCCAGAAGAGTGTATACCACCT
GAGCTGCTTCTGCTGCTGTGTCTGCGAGCGACAGCTTCAGAAGGGTGATGAGTTTGTCTGAAGGAGGGG
CAGCTGCTCTGCAAAGGGGACTATGAGAAGGAGCGGGAGCTGCTCAGCCTGGTGAGCCCAGCAGCCTCAG
ACTCAGGTAAAAGTGATGATGAAGAAAGTCTCTGCAAGTCAGCCCATGGGCGAGGAAAGGAACTGCTGA
GGAAGGCAAGGACCATAAGCGCCCCAAACGTCCGAGAACCATCTTGACAACTCAACAGAGGCGAGCATTC
AAGGCCTCATTTGAAGTATCCTCCAAGCCCTGCAGGAAGTGAGAGAGACTCTGGCTGCAGAGACAGGGC
TGAGTGTCCGTGCTCGTCCAGGTGTGGTTCCAAAACAGAGAGCGAAGTGAAGAAGCTGGCCAGGCGACA
GCAGCAGCAGCAGCAAGATCAGCAGAACCCAGAGGCTGAGCTCTGCTCAGACAAACGGTGGTGGGAGT
GCTGGGATGGAAGGAATCATGAACCCCTACACGGCTCTGCCACCCACAGCAGCTCCTGGCCATCGAGC
AGAGTGTCTACAGCTCAGATCCCTTCCGACAGGGTCTCACCCACCCAGATGCCTGGAGACCACATGCA
CCCTTATGGTGCCGAGCCCTTTTCCATGACCTGGATAGCGACGACACCTCCCTCAGTAACCTGGGTGAC
TGTTTCCTAGCAACCTCAGAAGCTGGGCTCTGCAGTCCAGAGTGGGAAACCCATTGACCATCTGTACT
CCATGCAGAATTCTTACTTCACATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC215375 representing NM_177398
 Red=Cloning site Green=Tags(s)

MLDGLKMEENFQSAIDTSASFSSLLGRAVSPKSVCEGCQRVILDRFLLRLNDSFWHEQCVQCASCKEPLE
 TTCFYRDKKLYCKYDYKELFAVKCGGCFEAIAPNEFVMRAQKSVYHLSCFCCCVCERQLQKGFVLEKEG
 QLLCKGDYKERELL SLVSPAASDSGKSDDEESLCKSAHGAGKGTAEEGDKHCRPKRPRTILTQQRRAF
 KASFEVSSKPCRKVRETLAAETGLSVRVVQVWFQNRQAKMKKLARRQQQQQDQQTQRLSSAQTNGGGS
 AGMEGIMNPYALPTPQQLLAIEQSVYSSDPFRQGLTPPQMPGDHMHYPYGAEP LFHDLSDDTSLNLGD
 CFLATSEAGPLQSRVGNPIDHLYSMQNSYFTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1127_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177398

ORF Size: 1146 bp

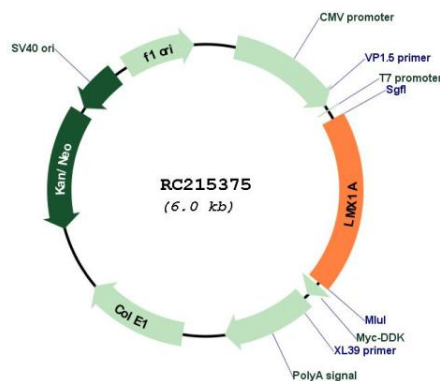
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

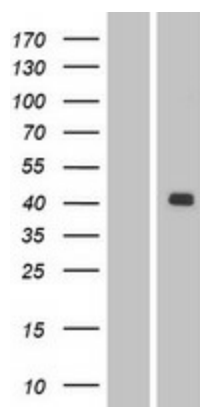
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_177398.2</u> , <u>NP_796372.1</u>
RefSeq Size:	3382 bp
RefSeq ORF:	1149 bp
Locus ID:	4009
UniProt ID:	<u>Q8TE12</u>
Cytogenetics:	1q23.3
Protein Families:	ES Cell Differentiation/IPS, Transcription Factors
MW:	42.6 kDa
Gene Summary:	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]

Product images:



Circular map for RC215375



Western blot validation of overexpression lysate (Cat# [LY406148]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215375 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).