

Product datasheet for **RG215375**

LMX1A (NM_177398) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LMX1A (NM_177398) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LMX1A
Synonyms:	DFNA7; LMX1; LMX1.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215375 representing NM_177398 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGACGGCCTAAAGATGGAGGAGAACTTCCAAAGCGCGATCGACACCTCGGCCTCCTTCTCTCTCGC
TGCTGGGCAGAGCGGTGAGCCCCAAGTCTGTCTGCGAGGGCTGTCAGCGGGTCATCTGGACAGGTTTCT
GCTGCGGCTCAACGACAGCTTCTGGCATGAGCAGTGCCTGCACTGCGCCCTCTGCAAAGAGCCCTGGAG
ACCACCTGCTTCTACCGGACAAGAAGCTGTACTGCAAGTATGACTACGAGAAGCTGTTTGTGTTAAAT
GTGGGGTGTCTCGAGGCCATCGCTCCCAATGAGTTTGTATGCGGGCCAGAAGAGTGTATACACCT
GAGCTGCTTCTGCTGCTGTCTGCGAGCGACAGCTTCAGAAGGGTGATGAGTTTGTCTGAAGGAGGGG
CAGCTGCTCTGCAAAGGGGACTATGAGAAGGAGCGGGAGCTGCTCAGCCTGGTGAGCCCAGCAGCCTCAG
ACTCAGGTAAGATGATGATGAAGAAAGTCTCTGCAAGTCAGCCCATGGGGCAGGGAAAGGAACTGCTGA
GGAAGGCAAGGACCATAAGCGCCCCAAACGTCCGAGAACCATCTTGACAACCAACAGAGGGCAGCATTC
AAGGCCTCATTTGAAGTATCCTCCAAGCCCTGCAGGAAGTGAGAGAGACTCTGGCTGCAGAGACAGGGC
TGAGTGTCCGTGTCGTCCAGGTGTGTTCCAAAACCAGAGAGCGAAGTGAAGAAGCTGGCCAGGCGACA
GCAGCAGCAGCAGCAAGATCAGCAGAACCACCCAGAGGCTGAGCTCTGCTCAGACAACCGTGGTGGGAGT
GCTGGGATGGAAGGAATCATGAACCCCTACACGGCTCTGCCACCCCACAGCAGCTCCTGGCCATCGAGC
AGAGTGTCTACAGCTCAGATCCCTTCCGACAGGGTCTCACCCCACCCAGATGCCTGGAGACCACATGCA
CCCTTATGGTGCCGAGCCCTTTTCCATGACCTGGATAGCGACGACACCTCCCTCAGTAACCTGGGTGAC
TGTTTCTAGCAACCTCAGAAGCTGGGCCTCTGCAGTCCAGAGTGGGAAACCCATTGACCATCTGTACT
CCATGCAGAATTCTTACTTCACATCT

AC**CGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215375 representing NM_177398
 Red=Cloning site Green=Tags(s)

MLDGLKMEENFQSAIDTSASFSSLLGRAVSPKSVCEGCQRVILDRFLRLNDSFWHEQCVCASCKEPLE
 TTCFYRDKKLYCKYDYEKLFVAVKCGGCFEAIAPNEFVMRAQKSVYHLSCFCCCVCERQLQKGFVFLKEG
 QLLCKGDYEKERELLSLVSAAASDVGKSDDEESLCKSAHGAGKGTAEEGDKHKRPKRPRTILTTQQRRAF
 KASFEVSSKPCRKVRETLLAAETGLSVRVVQVWFQNRQAKMKKLARRQQQQQDQQTQRLSSAQTNGGGS
 AGMEGIMNPYALPTPQQLLAIEQSVYSSDPFRQGLTPPQMPGDHMPYGAEPLFHDLSDDTSLSNLGD
 CFLATSEAGPLQSRVGNPIDHLYSMQNSYFTS

TRTRPLE - GFP Tag - V

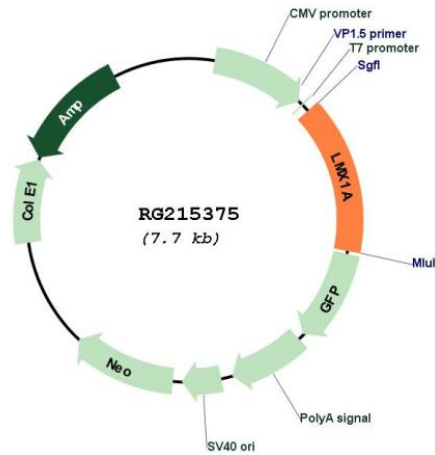
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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_177398.2 , NP_796372.1
RefSeq Size:	3382 bp
RefSeq ORF:	1149 bp
Locus ID:	4009
UniProt ID:	Q8TE12
Cytogenetics:	1q23.3
Protein Families:	ES Cell Differentiation/IPS, Transcription Factors
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]