

Product datasheet for **MG226375**

Lmx1a (NM_033652) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lmx1a (NM_033652) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lmx1a
Synonyms:	dr; dreher; Lmx1.1; sst
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226375 representing NM_033652 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGACGGCCTGAAGATGGAGGAGAACTTTCAAAGTGCATTGAGACCTCGGCATCTTTCTCTCTT
TGCTGGGCAGAGCGGTGAGCCCCAAGTCTGTCTGCGAGGGCTGTCAGCGGGTCATCTCGGACAGGTTTCT
GCTGCGGCTCAACGACAGCTTCTGGCACGAGCAATGCGTGCAGTGTGCCTCCTGCAAAGAGCCCCCTGGAG
ACCACCTGCTTCTACCGGACAAGAAGCTCTACTGCAAGTACCACTACGAGAACTGTTTGTGTCAAAT
GTGGGGCTGCTTCGAGGCCATTGCGCCAATGAGTTTGTGATGCGTGCAGAGAGCGTATACCACT
GAGCTGCTTCTGCTGCTGCTGCTGAGCGACAGCTGCAGAAGGGTGACGAGTTTGTCTGAAGGAGGGC
CAGCTGCTCTGCAAAGGGGACTATGAGAAAGAACGGGAGCTGCTGAGCCTGGTGAGCCCTGCGGCCCTCAG
ACTCAGGCAAAAGCGATGATGAGGAGAGCCTTTGCAAGTCAGCCCATGGGGCAGGAAAAGGAGCATCAGA
GGACGGCAAGGACCATAAGCGACCCAAACGTCCCAGAACCATCCTGACCACTCAGCAGAGGAGAGCATTC
AAGGCCTCGTTTGAAGTATCCTCCAAGCCCTGCAGAAAGGTGAGGGAGACTCTGGCTGCGGAGACAGGGC
TGAGTGTCCGTGTGGTTCAGGTGTGGTTCAGAACCCAGCGAGCCAAGATGAAGAAGCTGGCCCGGCGACA
GCAGCAACAGCAACAGGACCAACAGAACACCCAGAGGCTGACTTCTGCTCAGACAATGGTAGTGGGAAT
GCGGGCATGGAAGGATCATGAACCCCTATACAACGTTGCCACCCACAGCAGTGTGCCATTGAAC
AGAGCGTCTACAACCTGATCCCTTCCGACAGGGTCTCACCCACCCAGATGCCTGGAGATCACATGCA
CCCTATGGTGTGAACCTCTTTTCCATGACTTGATAGTGATGACACATCTCTCAGTAACCTGGGAGAC
TGCTTCTGGCAACCTCAGAAGCTGGGCCCTGCAGTCCAGAGTGGGAAACCCATTGACCATCTGTACT
CCATGCAGAATTCCTATTTACCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226375 representing NM_033652
 Red=Cloning site Green=Tags(s)

MLDGLKMEENFQSAIETSASFSSLLGRAVSPKSVCEGCQRVISDRFLLRLNDSFWHEQCVQCASCKEPL
 TTCFYRDKKLYCKYHYEKLFAVKCGGCFEAIAPNEFVMRAQKSVYHLSCFCCCVCERQLQKGFVLEK
 QLLCKGDYEKERELLSLVSAAADSGKSDDEESLCKSAHGAGKGASEDGKDHKRPKRPTILTTQRRAF
 KASFEVSSKPCRKVRETLAAETGLSVRVVQVWFQNRQAKMKKLARRQQQQDQDQNTQRLTSAQTNGSGN
 AGMEGIMNPYTTLPTPQQLLAIEQSVYNSDPFRQGLTPPQMPGDHMPYGAEPLFHDLSDDTSLSNLGD
 CFLATSEAGPLQSRVGNPIDHLYSMQNSYFTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033652

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.

RefSeq: [NM_033652.5](#), [NP_387501.1](#)

RefSeq Size: 3338 bp

RefSeq ORF: 1149 bp

Locus ID: 110648

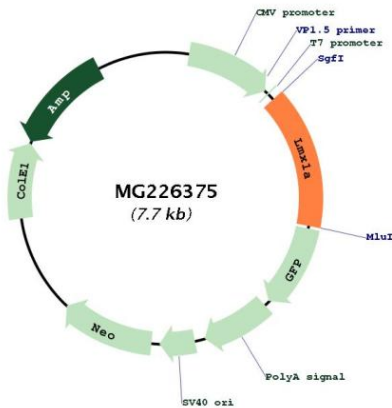
UniProt ID: [Q9JKU8](#)

Cytogenetics: 1 75.08 cM

MW: 42.9 kDa

Gene Summary: Acts as a transcriptional activator by binding to an A/T-rich sequence, the FLAT element, in the insulin gene promoter. Required for development of the roof plate and, in turn, for specification of dorsal cell fates in the CNS and developing vertebrae.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226375