

## Product datasheet for MR226375

### Lmx1a (NM\_033652) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lmx1a (NM\_033652) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Lmx1a  
**Synonyms:** dr; dreher; Lmx1.1; sst  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR226375 representing NM\_033652  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGGACGGCCTGAAGATGGAGGAGAACTTTCAAAGTGCATTGAGACCTCGGCATCTTTCTCTCTT  
TGCTGGGCAGAGCGGTGAGCCCCAAGTCTGTCTGCGAGGGCTGTCAGCGGGTCATCTCGGACAGGTTTCT  
GCTGCGGCTCAACGACAGCTTCTGGCACGAGCAATGCGTGCAGTGTGCCTCCTGCAAAGAGCCCCGGAG  
ACCACCTGCTTCTACCGGACAAGAAGCTCTACTGCAAGTACCACTACGAGAACTGTTTGTGTCAAAT  
GTGGGGGCTGCTTCGAGGCCATTGCGCCAATGAGTTTGTTCATGCGTGCCAGAAGAGCGTATACCACT  
GAGCTGCTTCTGCTGCTGCTGTGAGCGACAGCTGCAGAAGGGTGACGAGTTTGTCTGAAGGAGGGC  
CAGCTGCTCTGCAAAGGGGACTATGAGAAAGAACGGGAGCTGCTGAGCCTGGTGAGCCCTGCGGCCCTCAG  
ACTCAGGCAAAAGCGATGATGAGGAGAGCCTTTGCAAGTCAGCCCATGGGGCAGGAAAAGGAGCATCAGA  
GGACGGCAAGGACCATAAGCGACCCAAACGTCCCAGAACCATCCTGACCACTCAGCAGAGGAGAGCATTC  
AAGGCCTCGTTTGAAGTATCCTCCAAGCCCTGCAGAAAGGTGAGGGAGACTCTGGCTGCGGAGACAGGGC  
TGAGTGTCCGTGTGGTTCAGGTGTGTTCCAGAACCAGCGAGCCAAGATGAAGAAGCTGGCCCGGCGACA  
GCAGCAACAGCAACAGGACCAACAGAACACCCAGAGGCTGACTTCTGCTCAGACAATGGTAGTGGGAAT  
GCGGGCATGGAAGGATCATGAACCCCTATACAACGTTGCCACCCACAGCAGTGTGCCATTGAAC  
AGAGCGTCTACAACCTGATCCCTTCCGACAGGGTCTCACCCACCCAGATGCCTGGAGATCACATGCA  
CCCTATGGTGTGAACCTCTTTTCCATGACTTGATAGTGATGACACATCTCTCAGTAACCTGGGAGAC  
TGCTTCTGGCAACCTCAGAAGCTGGGCCCTGCAGTCCAGAGTGGGAAACCCATTGACCATCTGTACT  
CCATGCAGAATTCCTATTTACCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR226375 representing NM\_033652  
Red=Cloning site Green=Tags(s)

MLDGLKMEENFQSAIETSASFSSLLGRAVSPKSVCEGCQRVISDRFLLRLNDSFWHEQCVQCASCKEPLE  
 TTCFYRDKKLYCKYHYEKLFAVKCGGCFEAIAPNEFVMRAQKSVYHLSCFCCCVCERQLQKDEFVLKEG  
 QLLCKGDYEKERELLSLVSPAASDSGKSDDEESLCKSAHGAGKGASEDGKDHKRPKRPTILTTQRRRAF  
 KASFEVSSKPCRKRVRETLAAETGLSVRVVQVWFQNRQAKMKKLARRQQQQQDQNTQRLTSAQTNGSGN  
 AGMEGIMNPYTTLPTPQQLLAIEQSVYNSDPFRQGLTPPQMPGDHMPYGAEPLFHDLDSDDTSLNLGD  
 CFLATSEAGPLQSRVGNPIDHLYSMQNSYFTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9080\\_e11.zip](https://cdn.origene.com/chromatograms/mm9080_e11.zip)

**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

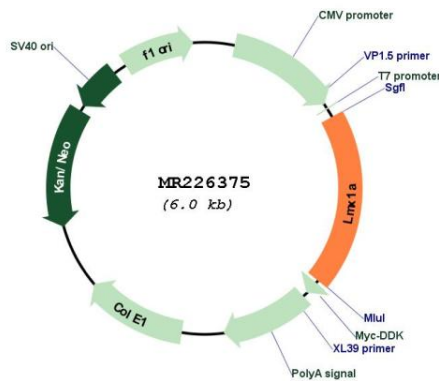
**UniProt ID:** [Q9JKU8](#)

**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 MR226375