

Product datasheet for MR222331

Mlx (NM_001159385) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Mlx (NM_001159385) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Mlx |
| Synonyms: | bHLHd13; Tcf14; Tf4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR222331 representing NM_001159385 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGGAGCCGGGCGCCTCTCCGGAGGACCCTTGGGTCAAGGTCGAGTATGCCTACAGTGACAACAGCC
TGGATCCTGGGCTTTTTGTAGAAAGCACCCACAAGGGGAGTGTAGTGTCCAGAGCTAATAGCATCGGCTC
CACCAGTGCCCTTCTGTCCCAACACAGATGATGAGGACAGTGATTATCAGCAGGAGTCTACAAGGAG
TCCTACAAAGACCGGAGGCGCGTGCGCACACTCAGGCTGAACAGAAGAGAAGGGATGCTATTAAGAGAG
GCTATGATGACCTTCAGACCATTGTCCCTACCTGCCAGCAGCAGGATTTCTCCATTGGCTCCAAAAACT
CAGCAAAGCCATCGTTCTACAGAAGACCATTGACTACATCCAGTTTTTACACAAGGAGAAGAAAAAGCAG
GAGGAAGAAGTATCCACACTGCGCAAGGACGTCACAGCCTTGAAGATAATGAAAGTGAAGTATGAGCAAA
TCGTGAAGGCACATCAGGACAACCCTCATGAGGGAGAGGACCAGGTCTCTGACCAGGTCAAGTTCAACGT
CTTTCAAGGCATCATGGACTCCCTCTTCCAGTCTTTCAACGCCTCTATCTCTGTGGCCAGCTTCCAGGAG
CTCTCAGCTTGTGTCTTTCAGCTGGATTGAGGAACACTGTGAGCCACAGACTCTACGAGAGATTGTGATCG
GTGTCCTTCATCAGTTGAAAAACCAACTCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222331 representing NM_001159385
Red=Cloning site Green=Tags(s)

MTEPGASPEDPWVKVEYAYSNSLDPGLFVESTHKGSVSRANSIGSTSASSVPNTDDESDYQQESYKE
 SYKDRRRRAHTQAEQKRRDAIKRGYDDLQTIPTCQQQDFSIGSQKLSKAIVLQKTIIDYIQFLHKEKKKQ
 EEEVSTLRKDVLTALKIMKVNYEQIVKAHQDNPHEGEDQVSDQVKFNVFQGIMDSLQSFNASISVASFQE
 LSACVFSWIEEHCEPQTLREIVIGVLHQLKNQLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001159385

ORF Size: 732 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_001159385.1](#), [NP_001152857.1](#)

RefSeq Size: 1830 bp

RefSeq ORF: 735 bp

Locus ID: 21428

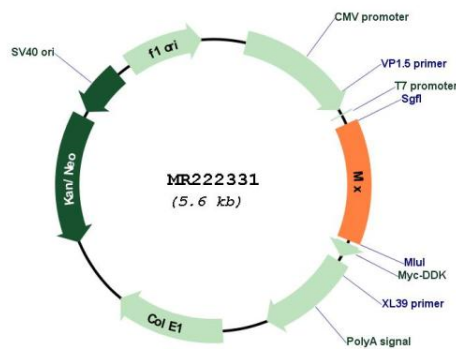
UniProt ID: [O08609](#)

Cytogenetics: 11 D

MW: 28.3 kDa

Gene Summary: Transcription regulator. Forms a sequence-specific DNA-binding protein complex with MAD1, MAD4, MNT, WBSCR14 and MLXIP which recognizes the core sequence 5'-CACGTG-3'. The TCFL4-MAD1, TCFL4-MAD4, TCFL4-WBSCR14 complexes are transcriptional repressors. Plays a role in transcriptional activation of glycolytic target genes. Involved in glucose-responsive gene regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222331