

Product datasheet for MR222262

Mlx (NM_001159384) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Mlx (NM_001159384) 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: >MR222262 representing NM_001159384
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGACGGAGCCGGGCGCCTCTCCGGAGGACCCTTGGGTCAAGGTCGAGTATGCCTACAGTGACAACAGCC
 TGGATCCTGATGATGAGGACAGTGATTATCAGCAGGAGTCCTACAAGGAGTCCTACAAAGACCGGAGGCG
 GCGTGCGCACACTCAGGCTGAACAGAAGAGAAGGGATGCTATTAAGAGAGGCTATGATGACCTTCAGACC
 ATTGTCCCTACCTGCCAGCAGCAGGATTTCTCCATTGGCTCCAAAAACTCAGCAAAGCCATCGTTCTAC
 AGAAGACCATTGACTACATCCAGTTTTTACACAAGGAGAAGAAAAAGCAGGAGGAAGAAGTATCCCACT
 GCGCAAGGACGTACAGCCTTGAAGATAATGAAAGTGAAGTATGAGCAAAATCGTGAAGGCACATCAGGAC
 AACCTCATGAGGGAGAGGACCAGGTCTCTGACCAGGTCAAGTTCAACGTCTTTCAAGGCATCATGGACT
 CCCTCTTCCAGTCTTTCAACGCCTCTATCTGTGTGCCAGCTTCCAGGAGCTCTCAGCTTGTGTCTTCAG
 CTGGATTGAGGAACACTGTGAGCCACAGACTCTACGAGAGATTGTGATCCGGTGTCTTTCATCAGTTGAAA
 ACCCAACTCTAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222262 representing NM_001159384
Red=Cloning site Green=Tags(s)

MTEPGASPEDPWVKVEYAYSNSLDPDDESDYQQESYKESYKDRRRRAHTQAEQKRRDAIKRGYDDLQT
 IVPTCQQQDFSIGSQKLSKAIVLQKTIDYIQFLHKEKKKQEEVSTLRKDV TALKIMKVNYEQIVKAHQD
 NPHEGEDQVSDQVKFNVFQGIMDSL FQSFNASISVASFQELSACVFSWIEEHCEPQTLREIVIGVLHQLK
 NQLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001159384

ORF Size: 642 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_001159384.1](#), [NP_001152856.1](#)

RefSeq Size: 1740 bp

RefSeq ORF: 645 bp

Locus ID: 21428

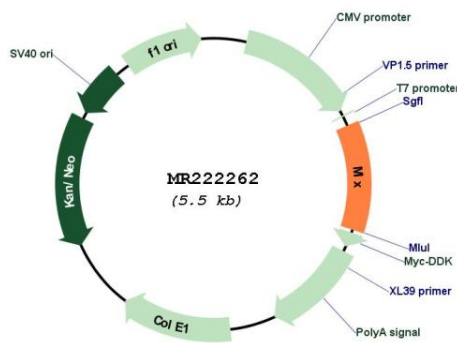
UniProt ID: [O08609](#)

Cytogenetics: 11 D

MW: 25.4 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 MR222262