

Product datasheet for **MC201659**

Mlx (NM_011550) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mlx (NM_011550) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mlx
Synonyms:	bHLHd13; Tcf14; Tf4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031380 sequence for NM_011550
 GTTCGGTAGGTTACGATGACGGAGCCGGGCGCCTCTCCGGAGGACCCTTGGGTCAAGGCAAGCTTCGCG
 GACGCGCACGCCGGGAGGGGAGGGCGGGTCCGGCTCGTGACAGTAGGGGTCCGGAAGACGCGGGGCTC
 CCCAACTATCCCCAGAGTCTCCCTGCTGTCCGGGGCCCGGGGCTGCAGAGAAGACAGCTCTACCCGGC
 CTGTGCCAAGGTCGAGTATGCCTACAGTGACAACAGCCTGGATCCTGGGCTTTTTGTAGAAAGCACCCAC
 AAGGGGAGTGTAGTGTCCAGAGCTAATAGCATCGGCTCCACCAGTGCCTTTCTGTCCCCAACACAGATG
 AGGAGGACAGTGATTATCAGCAGGAGTCTACAAGGAGTCTACAAAGACCGGAGGCGCGTGCGCACAC
 TCAGGCTGAACAGAAGAGAAGGGATGCTATTAAGAGAGGCTATGATGACCTTCAGACCATTGTCCCTACC
 TGCCAGCAGCAGGATTTCTCATTGGCTCCAAAAACTCAGCAAAGCCATCGTTCTACAGAAGACCATTG
 ACTACATCCAGTTTTTACACAAGGAGAAGAAAAAGCAGGAGGAAGAAGTATCCACACTGCGCAAGGACGT
 CACAGCCTTGAAGATAATGAAAGTGAACATGAGCAAATCGTGAAGGCACATCAGGACAACCCTCATGAG
 GGAGAGGACCAGGTCTGTACCAGGTCAAGTTC AACGTCTTTCAAGGCATCATGGACTCCCTCTCCAGT
 CTTTCAACGCCTCTATCTGTGGCCAGCTTCCAGGAGCTCTCAGCTTGTGTCTTCAGCTGGATTGAGGA
 AACTGTGAGCCACAGACTCTACGAGAGATTGTGATCGGTGCCTTCATCAGTTGAAAAACCAACTCTAC
 TGATTGCCATGGAAGCCTGCAGAGCAGCCAACAAGAGGCCTTTGAGAGTGTGGCCATGGAACAACTGC
 TGGGCCTATGAGACTGGCCTGCAACACCTCACACCGGTACAGTGGTTTCTACTTGGTGTGGTTTTCC
 AACCCACTTCAGCTTCGGTGGGTTGAGTGTGGTGTGAAAGCTTCTGAATAATTTATTATATTGTCAC
 AATGTTGAACCTACCCAACCTTCCCTTTCTAGGAAAAGCCTCTAGGACAAGAGTCTGTTGAGGGAGCCT
 CACAGAACCCTGAGCCCCCAGCCTTTCTACCCACTGGGTTCTGCTCACAATCTATATACATAATT
 TGGAAATCGTTTGCCTCTGCTTGGTCTCTTGGGCAACACTTGGCTCAAGTTTGGGTATTTGGCAGTTCT
 TAAGTTAGAAAAAGGAAAAAGAAATAGCCCTATGGCCATGAAGGGTAAAAGGCCACCTTGTGCCTAGGCT
 AGGGCTGTGTGGTCAATACTAAGTAAGGCCAGGGTATTCTAGCCAGCTCAGGGTAGGGCTGCTGACCT
 GCTACCCTCATGTTCTGCTGCCACTTCAGCTGCTGAGGTGCTACAGGAAACAGCGTCCCATCAGCTCT
 TGCCCTGTCTTCCAAAGGCAAAGGCAGCATTACATATTTGAATTTATCTTCTAAATACCCACAGTGCAT
 TTTTGTATATGAGTTTCCAACTTCTTAGCAGACCTCCAAAGCAGCCCCAGCCTCTTCTGCATAATG
 TGTGTATCTGCCACCAGTGTGTGTCTCCATTTCTCCTGGGGCCTGGGGATAGAGTTAGGTGGGACAG
 GAGATCTCAAGTCTTCTGGGGTAGGCCAGGGCGATCCCTTGGGAGTCTCAAATGTTGGTGTATGGCAC
 CCTTTCTGTACTTTATCCCATGTTTCTACTGCCTTCCCAGGTTTGATATCTGGGAGGTTTGATCATC
 CAGAGGAAATTAAGTATTTTTATCAAATTATATTACAATAAATATTACAATACTTTCTTTAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_011550

Insert Size: 897 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:	<u>NM_011550.3</u> , <u>NP_035680.3</u>
RefSeq Size:	1992 bp
RefSeq ORF:	897 bp
Locus ID:	21428
UniProt ID:	<u>O08609</u>
Cytogenetics:	11 D
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) contains two additional segments in the coding region compared to variant 1. The resulting isoform (gamma) thus, is longer than isoform alpha encoded by variant 1.</p>