

Product datasheet for **MC219749**

Mlxip (NM_177582) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mlxip (NM_177582) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mlxip
Synonyms:	AW228700; bHLHe36; Mir
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219749 representing NM_177582
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCCGACGTTTTTCATGTGTTTCGCCGCGCCGCCCGCAGTCGGGGCCGTTCCGGTGTCTCAAGC
 CTCAGGTGCCCGAGGACGACGACTCGGACACAGACGAGCCGTCTCCGCCGCCCCCTCCGGCGTGGC
 CACTTCAGCCCGGGCCACGCGAGCGCCGCGCCGCTGCCGCTCGGGCCGGCCCGGGCCGAGGAGCCT
 CCGCGCCGACAGCAGATCATCCACAGCGGCCACTTCATGGTGTCTCTCCGCACCGCGAGCACCCGCCA
 AGAAGGGCTATGATTTGACACGGTCAACAAGCAGACGTGCCAGACCTATAGCTTCGGCAAGACCAGCTC
 CTGCCACTTGTCCATCGATGCGTCGCTACCAAGCTCTTCGAGTGCATGACCCTGGCCTACAGTGGGAAA
 TTAGTGTCTCCAAAGTGGAAAAATTTCAAGGGCCTGAAGCTCCAGTGGCGGGACAAGATCCGGCTCAACA
 ACGCCATCTGGAGGCATGGTATATGCAGTATTTGGAGAAGCGCAAGAATCCTGTGTGCCACTTTGTAC
 CCCACTAGATGGCTCTGTTGATGATGAAACCCGTCGCCAGAGGCCATCACCACAGAGGGCAAGTAC
 TGGAAAAGCCGATTGAGATTGTGATTCGAGAGTACCACAAGTGGAGAACCTACTTCAAGAAAAGGCTGC
 AGCAGCACAAAGGATGAGGACCTTCTAGCCTGGCCAGGACGATGACATGCTGTATTGGCATAAACATGG
 GGATGGCTGGAAAACCCAGTCCCATGGAGGAGGACTACTGTGGACACAGACATGCTCATGTGAGAA
 TTCAGCGACACTCTTCTCCACACTCTTTCACACCAACCCGTGGCCTGGCCCAACCCACGAGAAATAG
 CACATCTGGGAAACGCAGACATGATCCAGCCAGGCTGATCCCTTTGCAACCAACCTGGACTTCATGGA
 CACCTTTGAGCCTTTCCAGGATCTTCTCCTCCAGCCGATCCATTTTGGCTCCATGTTGCCTCCTCT
 TCATCATTACCTGCCGAGATCCTAGCAGCCACCTTCTCAGGGGAACATCTTGCCAAATACAGCTCTCC
 CTCTGCCGAGCCTGCCCAATAGCCTCATTACATCTTCTGCAGCCCTCCCTGGATCCCACAGAGGGCCA
 GGGTTGTGAACGCACATCCCAAACGGTGGACCCGTTTATTACGCTGCAGACTTTGGTCCCTCTGAGCCA
 CCACTGAGTGTCCACAGCCCTTCTCCTGTCTTTACGATGACCTTACTTTCCCTGGCCCGCCCGAG
 CACCTGTTCCAATGCATTGCCCTTAGTTCCTTCGCTGCCCTACTCTAAACCCCAACTCCACCAGC
 TTTCTGCAGCCACAGAAGTTTGTGGAGTCAGCAAATCCACCCCTGTTATTACCACACAGCCTCTGCA
 ACCCTTACCCATGATGCTTCTGCCACCCTTCAGCCAGAACCAGGGCCTTGTATCACAGCACACCATC
 CAACCCCTCCTCATCCCTGTGCTTTGGCACTGTCACCCGTACCCAGCCACCAGCCGTGGGACCTCC
 CCAACCTCATTTAACTTTATACACCCAAACCTGTGCTTGTACTGGAGTGAGACACAAGCAGCCCTCC
 AAAATAGTGCCTGCTCCTAAACCTGAGCCTGTCTCCTTGGTGTGAAGAATGCCTGCATTGCTCCAGGTG
 AGTTGGTTGGGGGTGTGGTCAGCCAGAATTGCCTAGGGAGCAATGTTCCCTTTCTAAGGCTTTACAT
 TGGGAAGAACTCCCTTCCACT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_177582

Insert Size: 1845 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_177582.3](#), [NP_808250.1](#)

RefSeq Size: 2649 bp

RefSeq ORF: 1845 bp

Locus ID: 208104

UniProt ID: [Q2VPU4](#)

Cytogenetics: 5 F

Gene Summary: Binds DNA as a heterodimer with MLX and activates transcription. Binds to the canonical E box sequence 5'-CACGTG-3'. Plays a role in transcriptional activation of glycolytic target genes. Involved in glucose-responsive gene regulation.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) lacks several exons and includes an alternate 3' terminal exon, compared to variant 1. It encodes isoform 1 which is shorter and has a distinct C-terminus, compared to isoform 1.