

Product datasheet for **MR225719**

MIxip (NM_133917) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIxip (NM_133917) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIxip
Synonyms:	AW228700; bHLHe36; Mir
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR225719 representing NM_133917
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCCGACGTTTTTCATGTGTTTCGCCGCGCCGGCCCCGAGTCGGGGCCGTTCCGGTGTCTCAAGC
 CTAGGTGCCCGAGGACGACGACTCGGACACAGACGAGCCGCTCCGCCGCCCCCTCCGGCGTGGC
 CACTTCAGCCCGGGCCACGCGAGCGCCGCGCCGCTGCCGCTCGGGCCGGCCCGGGCCGCGAGGAGCCT
 CCGCGCCGACAGCAGATCATCCACAGCGGCCACTTCATGGTGTCTCTCCGCACCGCGAGCACCCGCCCA
 AGAAGGGCTATGATTTTCGACACGGTCAACAAGCAGACGTGCCAGACCTATAGCTTCGGCAAGACCAGCTC
 CTGCCACTTGTCCATCGATGCGTCGCTACCAAGCTCTTCGAGTGCATGACCCTGGCCTACAGTGGGAAA
 TTAGTGTCTCCAAAGTGGAAAAATTTCAAGGGCCTGAAGCTCCAGTGGCGGACAAGATCCGGCTCAACA
 ACGCCATCTGGAGGGCATGGTATATGCAGTATTTGGAGAAGCGCAAGAATCCTGTGTCCACTTTGTAC
 CCCACTAGATGGCTCTGTTGATGATGAAACCGTCCGCCAGAGGCCATCACCACAGAGGGCAAGTAC
 TGGAAAAGCCGATTGAGATTGTGATTCGAGAGTACCACAAGTGGAGAACCTACTTCAAGAAAAGGCTGC
 AGCAGCACAAGGATGAGGACCTTCTAGCCTGGCCAGGACGATGACATGCTGTATTGGCATAAACATGG
 GGATGGCTGGAAAACCCAGTCCCATGGAGGAGGACTCACTGTGGACACAGACATGCTCATGTGAGAA
 TTCAGCGACACTCTTCTCCACACTCTTTCACACCAACCCGTGGCCTGGCCCAACCCACGAGAAATAG
 CACATCTGGGAAACGACAGATGATCCAGCCAGGCTGATCCCTTTGCAACCAACCTGGACTTCATGGA
 CACCTTTGAGCCTTTCCAGGATCTTCTCCTCCAGCCGATCCATTTTGGCTCCATGTTGCCTCCTCCT
 TCATCATTACCTGCCGAGATCCTAGCAGCCACCTTCTCAGGGGAACATCTTGCCAAATACAGCTCCTC
 CTCCTGGAGCCTGCCAATAGCCTCATTACATCTTCTGCAGCCCTCCCTGGATCCCACAGGGGCCA
 GGGTTGTGAACGCACATCCCAAACGGTGGACCCGTTTATTAGCCTGCAGACTTTGGTCCCTCTGAGCCA
 CCACTGAGTGTCCACAGCCCTTCTCCTGTCTTTACGATGACCTTACTTTCCCTGGCCCCGCCCCAG
 CACCTGTTCCAATGCATTGCCCTTAGTTCCTTCGCTGCCCTACTCTAAACCCCAACTCCACCAGC
 TTTCTGCAGCCACAGAAGTTTGTGGAGTGCAGAAATCCACCCCTGTTATTACCACACAGCCTTGCA
 ACCCTTACCCATGATGCTTCTGCCACCCTTCAGCCAGAACCAGGGCCTGTTATCACAGCACACCATC
 CAACCCCTCCTCATCCCTGTGCTTTGGCACTGTACCCGTACCCAGCCACCAGCCGTGGGACCTCC
 CCAACCTCATTTAACTTTTATACACCCAAACCTGTGTCTTACTGGAGTGCAGACACAAGCAGCCCCC
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 CCTTCTCAGGCCAACCGAGAAGGTGATCATGACATCAGCTCCTCTGAAGAGAGAAGGGATTCTAGCATC
 TACTGTGTCCCATCCAATGTGGTCATTGCTTCTGCTGCCATCACCAGGGCTTCTGGAGTACGGAGTTC
 CTCAGCCACAGCAGGACGAGCCAGCCTAGCCCCGTCTCTCGACTTTTTCTCAAGTACAGTGAAGACT
 CCCTGGTGAAGGGCGAGCAGGTCTCACTGCATGGGGGTAGTCCCCAGGTCCCTGCCACGGGCTCTAGTCG
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 GTTTGATGAATATGTGAAAAGCAGGACCCTGCAGAATTGGAAATTTCTGGATTTTCAGCATGATCAAG
 CCACTGTTTGAAGTCTTTCAAGGGATGGTATCTACCAGCAGCTTGGAGGAGTTCACCCGACGGCGCTTT
 CCTGGCTGGATCAGCACTGCTCTCTCCTGTCTCAGGCCAATGGTACTGAGTACCCTCCGTGAGCTGAG
 TACCACCCTCCATCCTGACGGATCCATCCAGCTGCCGAGCAAGCATCAGAGGCTGTTACCAGGATG
 GGCAAGAGATCGGGGAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >MR225719 representing NM_133917
 Red=Cloning site Green=Tags(s)

MAADVFMCSPPRRPRSRGRSVLLKPQVPEDDDSDTDEPSPPPPSGVATSARAHASAAAPLPPRAGPGREEP
 PRRQQIIHSGHFMVSSPHREHPPKKGYDFDTVKNQTCQTYSFGKTSSCHLSIDASLTKLFECMTLAYS GK
 LVSPKWNFKGLKLQWRDKIRLNNAIWRAYMQYLEKRKNPVCHEFTPLDGSVDVDEHRRPEAITTEGKY
 WKSRIEIVIREYHKWRTYFKKRLQQHKDEDLSSLAQDDMLYWHKHGDGWKTPVPMEESSLDDTMDLMSE
 FSDTLFSTLSSHQPVAWPNPREIAHLGNADMIQGLIPLQPNLDFMDTFEPFQDLFSSSRIFGSMLPPP
 SSLPAADPSSPPSQGNILPNTALPPASLPNSLITSSAAPSLDPTTEGQCERTSQTVDPFIQPADFGPSEP
 PLSVPQPFLPVFTMTLLSPGPAPAPVPTALPLVSPAPTLNPPTPPAFLQPQKFAGVSKSTPVITHTASA
 TLTHDASATTF SQNQLVITAHHTPSSSPCALALSPVPQPPAVGPPQPHLTFIHPKPVSLTGVRHKQPP
 KIVPAPKPEPVSLLKNACIAPAAFSGQPQKIVMTSAPLKREGILASTVSPSNVVIASAAITRASGVTEF
 LSHSTSSQPSPVSRFLSPSTVQDSL VKGEQVSLHGGSPQVPATGSSRDCPNNGQASPCPSEQSPSPQSPQ
 NNCSGKSTDPKNVAALKNRQKHISAEQRRFNIRMGFNTLNSLISNNSKQTS HaitlQKTMEYITKLQQE
 RMQMEEARRLREEIEELNTTIIISCQQLLPATGVPVNCRQLDHMRDMFDEYVKSRTLQNWKFWIFSMIIK
 PLFESFKGMVSTSSLEEFHRTALSWLDQHCSLPVLRPMVLSLRLQLSTTTILTDPSQLPEQASEAVTRM
 GKRSGES

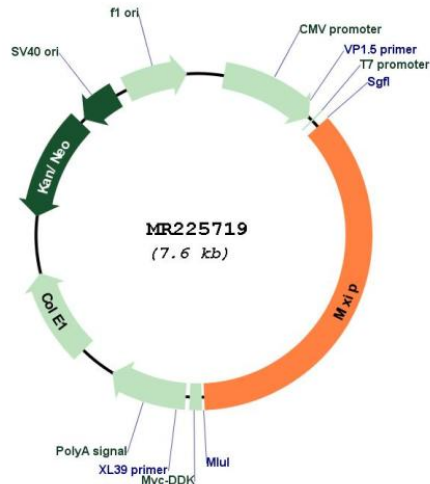
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_133917

ORF Size: 2751 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](#)

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:	<u>NM_133917.3, NP_598678.2</u>
RefSeq Size:	7300 bp
RefSeq ORF:	2754 bp
Locus ID:	208104
UniProt ID:	<u>Q2VPU4</u>
Cytogenetics:	5 F
MW:	101.2 kDa
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]