

Product datasheet for **RC222157**

MLX interacting protein (MLXIP) (NM_014938) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLX interacting protein (MLXIP) (NM_014938) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MLX interacting protein
Synonyms:	bHLHe36; MIR; MONDOA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC222157 representing NM_014938
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCGCGGACGTCTTCATGTGCTCCCGCGCCGGCCTCGCAGCCGGGGCCAGGTGCTGCTCAAGC
CCCAGGTGTCGAGGACGACGACGACTCGGACACGGATGAGCCGTCGCCCGCCCGCCCTCCGGCGCGGC
CACCCCGGCCCGGGCCACGCGAGCGCCGCGCCACCGCCGCTCGGGCCGGGCGGGCCGCGAGGAACCT
CCGCGCCGCCAGCAGATCATCCACAGCGCCACTTCATGGTGTGCTCGCCGACCGAGAGACCCGCCCA
AGAAGGGCTACGATTTGACACGGTCAACAAACAGACGTGCCAGACCTACAGTTCCGCAAGACTAGCTC
CTGCCACCTGTCCATCGACGCTCGCTACCAAGCTCTTCGAGTGCATGACTTTGGCCTACAGTGGGAAG
TTGGTGTCTCAAAGTGAAGAATTTCAAGGGCTGAAGCTACAGTGGAGAGACAAGATCCGGCTCAATA
ATGCCATCTGGCGGCCCTGGTACATGCAGTATCTGGAGAAGCGCAAGAATCCTGTGTCCACTTTGTGAC
ACCCCTGGACGGCTCTGTGGACGTAGACGAGCACCGCCGGCCGGAGGCCATCACCGGAAGGGAAGTAC
TGAAGAGCCGCATCGAGATTGTGATCCGGGAGTATCACAAAGTGGAGAACCTACTTCAAGAAAAGGCTAC
AGCAGCACAAAGGATGAGGACCTCTCCAGCTGGTCCAGGACGATGACATGCTGTATTGGCACAAGCACGG
GGATGGATGGAAGACCCCGTCCCATGGAGGAGGATCCCCTGTGGACACAGACATGCTCATGTGCGAA
TTCAGCGACACCCCTTTCTCCACACTTTCTCACACCAGCCGGTGGCCTGGCCCAATCCCGGGAATAG
CACATCTGGAAATGCAGACATGATCCAGCCGGGACTGATTCCTTTGCAGCCTAACCTGGACTTCATGGA
CACCTTTGAGCCTTTCCAGGACCTTTCTCTTCTAGCCGCTCCATTTTGGCTCCATGCTACCTGCATCT
GCCTCAGCACCTGTACCAGATCCCAACAACCCACCTGCACAGGAGAGCATCCTGCCGACCACAGCCCTCC
CCACTGTGAGCCTTCTGACAGCCTCATCGCCCCCTACCGCCCATCCCTGGCTCACATGGATGGCA
GGCTGTGAACACACCTCCCGGACTGAGGACCCGTTTATCCAGCCACGGAATTCGGTCCCTCAGAGCCG
CCTAGTGTCCCGCAGCCCTTCTCCCTGTCTTACCATGCCCTGTGTCTCCAGCCCGCCAC
CGCCATCTCCCGTGTACCATTAGTTCCTCCTCCTGCCACTGCCCTGAACCCCGGCTCCACCCAC
CTTCCATCAGCCACAGAAGTTTGTGGAGTCAACAAAGCGCCGTCTGTATCACCCACACGGCCTGTGCC
ACCCTCACCCAGATGCCCGCCACCCTTTAGCCAGAGTCAGGGCCTTGTGATCACCCACATCACCC
CTGCCCGTCCAGCGCCCTTGTGGCTGGCAGTCTCCTGTACCCGGCTCCCGAGCCAGGTTAAC
TTTTGTGACCCCAACCTGTATCCTTGACTGGGGCAGGCCTAAGCAGCCCAAAAATAGTGCCTGCT
CCCAAACAGAGCCGTCCTTGGTGTGAAGAATGCCGTATCGCCAGCTGCCTTTTCCAGGCAAC
CACAAGCGGTGATCATGACGTACAGGCTCTGAAGAGAGAAGGGATGTTGGCCTCCACCGTGTCCAGTC
CAACGTGGTCATTGCGCCTGTGCCATCGCCAGGGCTCCTGGGGTCCCGGAGTTCACAGCAGCATCCTG
GTGACAGATCTCGGCATGGCAGGAGCAGCCCGCTGCCCGCTCTCCCGCTTCCCAAGCACAGCGC
AAGACCCCTGGGAAGGGCAGCAGGTCCCGTGCATGGGGCAGCCCCAGGTCACTGTACAGGGCC
CAGTCGGGACTGCCAAACTCAGGGCAGGCCTCTCCGTGTGCATCGGAGCAGAGCCCGTCCATCT
CCCCAGAACTGCTCAGGGAATCCGACCCCAAAAATGTGGCTGCACTAAAGAACCAGGAGATGAAGC
ACATCTCAGCTGAGCAGAAAAGGCGCTTCAACATCAAGATGTGCTTCGACATGCTCAACAGCCTCATCTC
CAACAATTCAGCTGACCAGTACGCCATCACACTGCAGAAGACCGTGGAGTACATCACCAAGCTGCAG
CAGGAGAGAGCCAGATGCAGGAGGAGGCCCGCGGCTGCGGGAGGAGATCGAGGAGCTCAATGCCACCA
TCATCTCTGCCAGCAGCTGCTCCTGCCACGGGAGTCCCGTTACCGGCGCCAGTTTGTACATGAA
AGACATGTTTGACGAATACGTGAAAACCCGACCTTGCAGAATTGGAAGTTCTGGATTTTACGATCATC
ATCAAGCCGCTGTTTGTGCTTCAAGGCATGGTGTCCACCAGCAGCCTGGAGGAGCTGCACCGGACGG
CGCTCTCTGGCTGGACCAGCAGTCTCCTGCCATCCTCAGGCCGATGGTATTGAGCAGCTGCGGCA
GCTGAGCACCTCCACCTCATCCTCACAGACCCGGCACAGCTGCCAGAGCAGGCGTCCAAGGCTGTACCC
AGGATTGGCAAGAGATTGGGAGAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAGGTTTAA

Protein Sequence: >RC222157 representing NM_014938
 Red=Cloning site Green=Tags(s)

MAADVFMCSPPRRSRGRQVLLKPQVSEDDDDSDTDEPSPPPASGAATPARAHASAAAPPPRAGPGREEP
 PRRQQIIHSGHFMVSSPHREHPPKKGYDFDTVNKQTCQTYSFGKTSSCHLSIDASLTKLFECMTLAYS GK
 LVSPKWNFKGLKLQWRDKIRLNNAIWRAYMQYLEKRKNPVCHFVTPLDGSVDVDEHRRPEAITTEGKY
 WKSRIEIVIREYHKWRTYFKKRLQQHKDEDLSSLVQDDMLYWHKHGDGWKTPVPMEEEDPLLDTDMLMSE
 FSDTLFSTLSSHQPVAWPNPREIAHLGNADMIQGLIPLQPNLDFMDTFEPFQDLFSSRSIFGSMLPAS
 ASAPVPDPNPPAQESILPTTALPTVSLPDSL IAPPTAPSLAHMDGQGCHESTRTEDPFIQPTDFGPSEP
 PLSVPQPFLPVFTMPLLSPPAPPISVPLPLVPPATALNPPAPPTFHQPQKFAGVKNKAPSVITHTASA
 TLTHDAPATTFSSQGLVITTHHPAPSAAPCGLALSPVTRPPQRLTFVHPKPVSLTGGRPKQPHKIVPA
 PKPEPVSLLVKNARIAPAAFSGQPQAVIMTSGPLKREGMLASTVSQSNVVIAPAAIARAPGVPEFHSSIL
 VTDLGHGTSSPPAPVSRLFPSTAQDPLGKGEQVPLHGGSPQVTVTGPSRDCPNSGQASPCASEQSPSPQS
 PQNNCSGKSDPKNVAALKNRQMKHISAEQKRRFNKMCDFMLNSLISNNSKLTSHAITLQKTVVEYITKLQ
 QERGQMEEARRLREEIEELNATIIISCCQLLPATGVPVTRRQFDHMKDMFDEYVKTRTLQNKWFWIFSII
 IKPLFESFKGMVSTSSLEELHRTALSWLDQHCSLPILRPMVLSTLRQLSTSTSILTDPAQLPEQASKAVT
 RIGKRLGES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8041_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



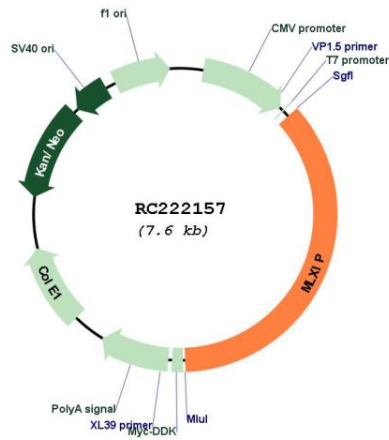
* The last codon before the Stop codon of the ORF

ACCN: NM_014938

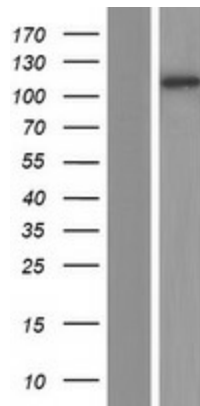
ORF Size: 2757 bp

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:	<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:	NM_014938.2 , NP_055753.2
RefSeq Size:	2760 bp
RefSeq ORF:	2760 bp
Locus ID:	22877
UniProt ID:	Q9HAP2
Cytogenetics:	12q24.31
Domains:	HLH
Protein Families:	Transcription Factors
MW:	101 kDa
Gene Summary:	This gene encodes a protein that functions as part of a heterodimer to activate transcription. The encoded protein forms a heterodimer with Max-like protein X (MLX) and is involved in the regulation of genes in response to cellular glucose levels. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RC222157



Western blot validation of overexpression lysate (Cat# [LY414904]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222157 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).