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Product datasheet for SC109829

MLX (NM_198204) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLX (NM_198204) Human Untagged Clone
Tag:	Tag Free
Symbol:	MLX
Synonyms:	bHLHd13; MAD7; MXD7; TCFL4; TF4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_198204, the custom clone sequence may differ by one or more nucleotides

ATGACGGAGCCGGGCGCCTCTCCCGAGGACCCTTGGGTCAAGGTGGAGTATGCCTACAGCGACAACAGCC
TGGACCCCGGGCTTTTTGTAGAAAGCACCCGCAAGGGGAGTGTAGTGTCCAGAGCTAATAGCATCGGTTC
CACCAGTGCCTCTTCTGTCCCCAACACAGATGATGAGGACAGTGATTACCACCAGGAGGCCTACAAGGAG
TCCTACAAAGACCGGCGGCGGCGCGCACACACTCAGGCTGAGCAGAAGAGGAGGGACGCCATCAAGAGAG
GCTATGATGACCTTCAGACCATCGTCCCCACTTGCCAGCAGCAGGACTTCTCCATTGGCTCCCAAAAGCT
CAGCAAAGCCATCGTTCTACAAAAGACCATTGACTACATTCAGTTTTTGCACAAGGAGAAGAAAAAGCAG
GAGGAGGAGGTGTCCACGTTACGCAAGGATGTCACCGCCCTAAAGATCATGAAAGTGAACTATGAGCAGA
TTGTGAAGGCACACCAGGACAACCCCCATGAAGGGGAGGACCAGGTCTCTGACCAGGTCAAGTTCAACGT
GTTTCAAGGCATCATGGATTCCCTGTTCCAGTCCTTCAATGCCTCCATCTCAGTGGCCAGCTTCCAGGAG
CTGTCAGCGTGTGTCTTCAGCTGGATCGAGGAGCACTGTAAGCCTCAGACCCTGCGGGAGATTGTGATTG
GCGTCCTGCACCAATTGAAAAACCAGCTTTACTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_198204 unedited
GTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGCCACCCGCTTCCTCGCCGC
AGGGGCCCGCCCGCTGGCCCGTTTCCGGTCCGGTGGGTACAAGATGACGGAGCCGGGCGC
CTCTCCCGAGGACCCTTGGGTCAAGGTGGAGTATGCCTACAGCGACAACAGCCTGGACCC
CGGGCTTTTTGTAGAAAGCACCCGCAAGGGGAGTGTAGTGTCCAGAGCTAATAGCATCGG
TTCCACCAGTGCCTCTTCTGTCCCCAACACAGATGATGAGGACAGTGATTACCACCAGGA
GGCCTACAAGGAGTCCTACAAAGACCGGCGGCGGCGCGCACACACTCAGGCTGAGCAGAA
GAGGAGGGACGCCATCAAGAGAGGCTATGATGACCTTCAGACCATCGTCCCCACTTGCCA
GCAGCAGGACTTCTCCATTGGCTCCCAAAAGCTCAGCAAAGCCATCGTTCTACAAAAGAC
CATTGACTACATTCAGTTTTTGCACAAGGAGAAGAAAAAGCAGGAGGAGGGAGGTGTCCA
CGTTACGCAAGGATGTCACCGCCCTAAAGATCATGAAAGTGAACTATGAGCAGATTGTGA
AGGCACACCGGGACAAACCCCATAAGGGGGGAGGACCAGGTCTCTGACCAGNTCAAGTTC
ACCGTGTTTCAAGGCATCATGGNATCCCTGTTNCCAGTCCTTCAATGCCCTCATCTTTAA
TGGCCAGCTTTCAAGAAGCTGTCAACGGGGGGGTCTTCAGCTGGAATCGAAAAGCACTTG
TTAGCCTCAAACCCTGCGGGAGATAGGGAATTGGGGGCTCCTGCACCCATTGGAAAACCA
GCTTTCTTGACCCGGTTCTTGGGAACCCTGGAAAACAGCCACAAGAAGGCCTTTGAATTC
TTACGTGGCCCTGAACTGGTGGGCCCGGGGAAAATGGACATAAACACCA

Restriction Sites: NotI-NotI

ACCN: NM_198204

Insert Size: 2700 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_198204.1, NP_937847.1

RefSeq Size: 2406 bp

RefSeq ORF: 735 bp

Locus ID: 6945

UniProt ID: Q9UH92

Cytogenetics: 17q21.2

Protein Families: Druggable Genome, Transcription Factors

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Gene Summary: The product of this gene belongs to the family of basic helix-loop-helix leucine zipper (bHLH-Zip) transcription factors. These factors form heterodimers with Mad proteins and play a role in proliferation, determination and differentiation. This gene product may act to diversify Mad family function by its restricted association with a subset of the Mad family of transcriptional repressors, namely, Mad1 and Mad4. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) contains an additional coding exon compared to variant 1. The resulting isoform (beta) thus, is longer than isoform alpha encoded by variant 1.

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