

Product datasheet for **RC234324**

MEF2D (NM_001271629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEF2D (NM_001271629) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEF2D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234324 representing NM_001271629
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGAGGAAAAAGATTAGATCCAGCGAATCACCGACGAGCGGAACCGACAGGTGACTTTCACCAAGC
 GGAAGTTTGGCCTGATGAAGAAGGCGTATGAGCTGAGCGTGCTATGTGACTGCGAGATCGCACTCATCAT
 CTTCAACCACTCCAACAAGCTGTTCCAGTACGCCAGCACCGACATGGACAAGGTGCTGCTCAAGTACACG
 GAGTACAATGAGCCACACGAGAGCCGCCAACGCCGACATCATCGAGACCCTGAGGAAGAAGGGCTTCA
 ACGGCTGCGACAGCCCCGAGCCGACGGGGAGGACTCGCTGGAACAGAGCCCCCTGCTGGAGGACAAGTA
 CCGACGCGCCAGCGAGGAGCTCGACGGGCTCTCCGGCGCTATGGGTCAACTGTCCCGGCCCAACTTT
 GCCATGCCTGTCACGGTGCCTGTCCAATCAGAGCTCACTGCAGTTCAGCAATCCAGCGGCTCCCTGG
 TCACCCCTTCCCTGGTGACATCATCCCTACGGACCCGCGGCTCCTGTCCCCCAGCAGCCAGCACTACA
 GAGGAACAGTGTGTCTCCTGGCCTGCCCCAGCGCCAGCTAGTGCAGGGGCCATGCTGGGGGTGACCTG
 AACAGTGTAAACGGAGCCTGCCCCAGCCCTGTTGGGAATGGCTACGTAGTGTGCTCGGGCTTCCCCTGGCC
 TCCTCCCTGTGGCCAATGGCAACAGCCTAAACAAGGTCATCCCTGCCAAGTCTCCACCCCACTACCCA
 CAGCACCCAGCTTGGAGCCCCAGCCGCAAGCCGACCTGCGAGTCACTTCCAGGCAGGAAAGGGG
 TTAATGCATCACTTGAACAATGCCAGCGCCTTGGGGTCTCCAGTCTACTATTTCGCTCACCACCCAG
 TGGTTTCTGTGGCAACGCCGAGTTTACTCAGCCAGGGCCTCCCCTTCTCTTCCATGCCCACTGCCTACAA
 CACAGATTACAGTTGACCAGTGCAGAGCTCTCCTCCTTACCAGCCTTTAGTTCACTGGGGGCTGTGCG
 CTAGGCAATGCTACTGCCTGGCAACAGCCACAGCAGCCCCAGCAGCCGACAGCCACAGCCTCCACAGC
 AGCAGCAACCCAGCCACAGCAGCCACAGCCACAGCAGCCTCAGCAGCCGCAACAGCCACCTCAGCAACA
 GTCCACCTGGTCCCTGTATCTCTCAGCAACTCATCCGGGCAGCCCCCTGCCCCAGTGGGTGCTGCC
 CTCACAGTCAACCCACCCCAACATCAGCATCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
 CTGCGCCTCCCCCTCCAGCTGTGTTCCAGCTGCCCGCCCTGAGCCTGGCGATGGTCTCAGCAGCCAGC
 CGGGGGATCCTATGAGACGGGAGACCGGGATGACGGACGGGGGACTTCGGGCCCACTGGGCCTGCTG
 CGCCAGCCCCAGAGCCTGAGGCTGAGGGCTCAGCTGTGAAGAGGATGCGGCTTGATACCTGGACATTAA
 AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234324 representing NM_001271629
 Red=Cloning site Green=Tags(s)

MGRKKIQIQIRITDERNRQVFTFKRKFGLMKKAYELSVLCDCEIALIIFNHSNKLQYASTDMDKVLKYYT
 EYNPHESTRNADIETLRKKGFNGCDSPEPDGEDSLEQSPLLEDKYRRASEELDGLFRRYGSTVPAPNF
 AMPVTVPVSNQSSLQFSNPSGSLVTPSLVTSSLTDPRLLSPPQALQRNSVSPGLPQRPASAGAMGGDL
 NSANGACPSVPGNGYVSARASPLLPVANGNSLNKVIKSPPPPSTHSTQLGAPSRKPDLRVITSQAGKG
 LMHHLNNAQRLGVSQSTHSLTTPVVSATPSLLSQGLPFSSMPTAYNTDYQLTSAELSSLPAFSSPGLS
 LGNVTAWQPPQ
 LTVTTHPHISIKSEPVSPSRERSPAPPPAVFPAARPEPGDGLSSPAGGSYETGDRDDGRGDFGPTLGLL
 RPAPPEAEAGSAVKRMLDWTWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001271629

ORF Size: 1542 bp

OTI Disclaimer: 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: [NM_001271629.2](#)

RefSeq Size: 5694 bp

RefSeq ORF: 1545 bp

Locus ID: 4209

UniProt ID: [Q14814](#)

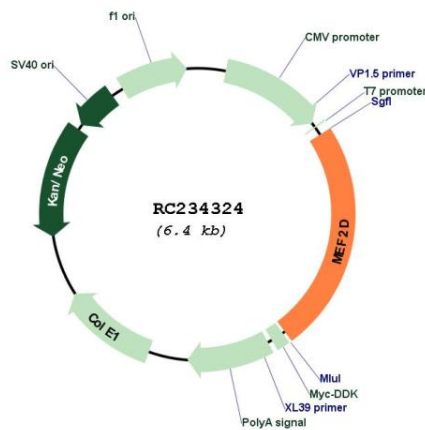
Cytogenetics: 1q22

Protein Families: Transcription Factors

MW: 55.6 kDa

Gene Summary: This gene is a member of the myocyte-specific enhancer factor 2 (MEF2) family of transcription factors. Members of this family are involved in control of muscle and neuronal cell differentiation and development, and are regulated by class II histone deacetylases. Fusions of the encoded protein with Deleted in Azoospermia-Associated Protein 1 (DAZAP1) due to a translocation have been found in an acute lymphoblastic leukemia cell line, suggesting a role in leukemogenesis. The encoded protein may also be involved in Parkinson disease and myotonic dystrophy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2012]

Product images:



Circular map for RC234324