

## Product datasheet for **RC208748**

### MEF2D (NM\_005920) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEF2D (NM_005920) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEF2D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC208748 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGAGGAAAAAGATTAGATCCAGCGAATCACCGACGAGCGGAACCGACAGGTGACTTTCACCAAGC  
 GGAAGTTTGGCCTGATGAAGAAGGCGTATGAGCTGAGCGTGCTATGTGACTGCGAGATCGCACTCATCAT  
 CTTCAACCACTCCAACAAGCTGTTCCAGTACGCCAGCACCGACATGGACAAGGTGCTGCTCAAGTACACG  
 GAGTACAATGAGCCACACGAGAGCCGACCAACGCCGACATCATCGAGACCCTGAGGAAGAAGGGCTTCA  
 ATGGCTGCGACAGCCCCGAGCCGACGGGGAGGACTCGCTGGAACAGAGCCCCCTGCTGGAGGACAAGTA  
 CCGACGCGCCAGCGAGGAGCTCGACGGGCTCTCCGGCGCTATGGGTCAACTGTCCCGGCCCCCACTTT  
 GCCATGCCTGTCACGGTGCCCGTCCAATCAGAGCTCACTGCAGTTCAGCAATCCAGCGGCTCCCTGG  
 TCAACCCCTCCCTGGTGACATCATCCCTACGGACCCCGGCTCCTGTCCCCCAGCAGCCAGCACTACA  
 GAGGAACAGTGTGTCTCCTGGCTGCCCGAGCGGCCAGCTAGTGGGGGGCCATGCTGGGGGGTACCTG  
 AACAGTGTAAACGGAGCCTGCCCGAGCCCTGTTGGGAATGGCTACGTAGTGTGCTCGGGCTTCCCCTGGCC  
 TCCTCCCTGTGGCCAATGGCAACAGCCTAAACAAGGTCATCCCTGCCAAGTCTCCGCCCCCACTACCCA  
 CAGCACCCAGCTTGAGCCCCAGCCGCAAGCCGACCTGCGAGTCATCACTTCCCAGGCAGGAAAGGGG  
 TTAATGCATCACTTGACTGAGGACCATTTAGATCTGAACAATGCCAGCGCCTTGGGGTCTCCCAGTCTA  
 CTCATTGCTCACCACCCAGTGGTTTCTGTGGCAACGCCGAGTTTACTCAGCCAGGGCCTCCCCTTCTC  
 TTCCATGCCCACTGCCTACAACAGATTACCAGTTGACCAGTGCAGAGCTCTCCTCCTTACCAGCCTTT  
 AGTTACCTGGGGGGTGTGCTAGGCAATGTCACTGCCTGGCAACAGCCACAGCAGCCCCAGCAGCCG  
 AGCAGCCACAGCCTCCACAGCAGCAGCCACCGCAGCCACAGCAGCCACAGCCACAGCCACAGCCG  
 GCAACAGCCACCTCAGCAACAGTCCCACCTGGTCCCTGTATCTCTCAGCAACCTCATCCCGGCCAGCCCC  
 CTGCCCCACGTGGGTGCTGCCCTCACAGTCAACCCACCCACATCAGCATCAAGTCAGAACCGGTG  
 CCCAAGCCGTGAGCGCAGCCCTGCGCCTCCCCCTCCAGCTGTGTTCCAGCTGCCCGCCCTGAGCCTGG  
 CGATGGTCTCAGCAGCCAGCCGGGGATCCTATGAGACGGGAGACCGGGATGACGGACGGGGGACTTC  
 GGGCCCACTGGGCTGCTGCGCCAGCCCCAGGCCTGAGGCTGAGGGCTCAGCTGTGAAGAGGATGC  
 GGCTTGATACCTGGACATTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC208748 protein sequence  
 Red=Cloning site Green=Tags(s)

MGRKKIQIQIRITDERNRQVFTTKRKFGLMCKAYELSVLCDCEIALIIFNHSNKLQYASTDMDKVLKLYT  
 EYNPHESTRNADIETLRKKGFNGCDSPEPDGEDSLEQSPILLEDKYRRASEELDGLFRRYGSTVPAPNF  
 AMPVTVPVSNQSSLQFSNPSGSLVTPSLVTSSLTDPRLLSPPQALQRNSVSPGLPQRPASAGAMGGDL  
 NSANGACPSPVNGYVSARASPLLPVANGNSLNKVIPAKSPPPPHSTQLGAPSRKPDLRVITSQAGK  
 LMHHLTEDHLDLNAQRLGVSQSTHSLTTPVVSVATPSLLSQGLPFSSMPTAYNTDYQLTSAELSSLP  
 SSPGGLSLGNVTAWQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQPQQP  
 LPHVGAALTVTTHPHISIKSEPVSPSRERSAPPVFPAAARPEPGDGLSSPAGGSYETGDRDDGRGDF  
 GPTLGLLRPAPEPEAEGSAVKRMRLDTWTLK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

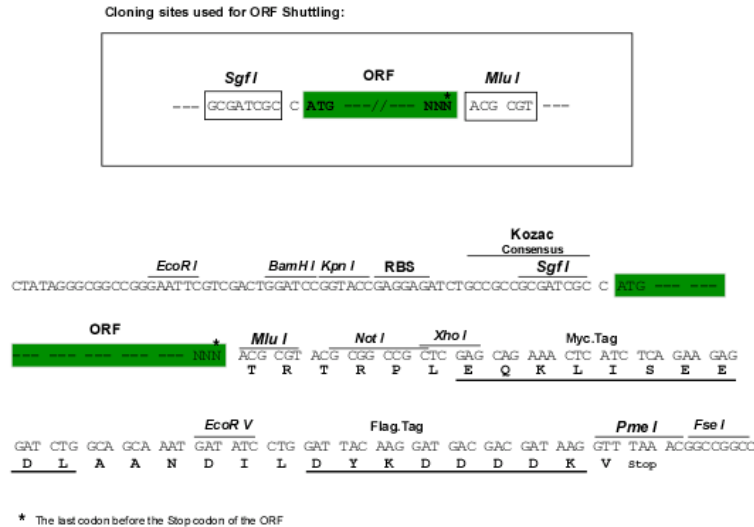
**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6362\\_h12.zip](https://cdn.origene.com/chromatograms/mk6362_h12.zip)

**Restriction Sites:**

Sgfl-Mlul

## Cloning Scheme:



ACCN: NM\_005920

ORF Size: 1563 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_005920.2](#), [NP\\_005911.1](#)

RefSeq Size: 5996 bp

RefSeq ORF: 1566 bp

Locus ID: 4209

UniProt ID: [Q14814](#)

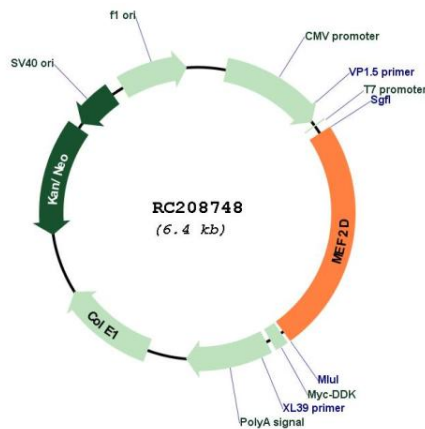
Cytogenetics: 1q22

Protein Families: Transcription Factors

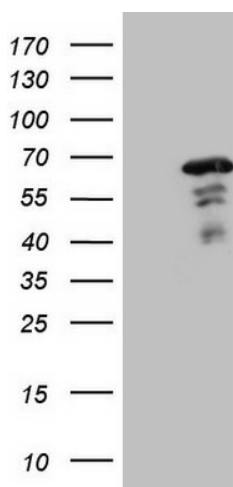
MW: 55.9 kDa

**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]

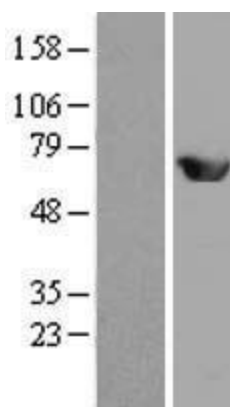
**Product images:**



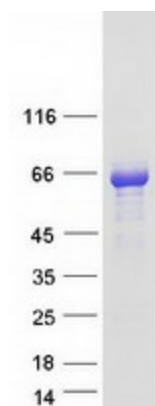
Circular map for RC208748



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MEF2D (Cat# RC208748, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MEF2D(Cat# [TA807651]). Positive lysates [LY416984] (100ug) and [LC416984] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416984]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208748 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MEF2D protein (Cat# [TP308748]). The protein was produced from HEK293T cells transfected with MEF2D cDNA clone (Cat# RC208748) using MegaTran 2.0 (Cat# [TT210002]).