

Product datasheet for **RC207489**

MIF4GD (NM_020679) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIF4GD (NM_020679) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIF4GD
Synonyms:	AD023; MIFD; SLIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207489 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGAGCCCAGTAGAGAGGAGTATAAAATCCAGTCCTTTGATGCAGAGACCCAGCAGCTGCTGAAGA
CAGCACTCAAAGTTGCCTGCTTTGAGACAGAAGATGGAGAATATCCGTTTGCCAGAGGAGCTATAGTAA
TTGCTCTCGCCTGATGCCTTCCCGCTGTAACACGCAGTACAGAGATCCGGGTGCTGTGGACTTGGAGAAA
GTGGCCAATGTGATTGTGGACCATTCTCTGCAGGACTGTGTGTTCCAGCAAGGAAGCAGGACGCATGTGCT
ACGCCATCATTAGGCAGAGAGTAAACAAGCAGGCCAGAGTGTCTCCGACGTGGACTCCTCAACCGGCT
GCAGCAGGAGTACCAGGCTCGGGAGCAGCTGCGAGCACGCTCCCTGCAGGGCTGGGTCTGCTATGTCACC
TTTATCTGCAACATCTTTGACTACCTGAGGGTGAACAACATGCCATGATGGCCCTGGTGAACCCCTGCT
ATGACTGCCTCTTCCGGCTGGCCAGCCAGACAGTTTGGCAAGGAGGAGGAGGTGGACTGTTTGGTGTCT
GCAGCTGCACCGGTTGGGGAGCAGCTGGAGAAAATGAATGGGCAGCGCATGGATGAGCTCTTTGTGCTG
ATCCGGGATGGCTTCTGCTCCCACTGGCCTCAGCTCCCTGGCCAGCTGCTGCTGGAGATCATTG
AGTTCCGGGCGCCGGCTGGAAGACAACGCCAGCTGCCACAAGTATTACTACAGCGAAGTCTCCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207489 protein sequence
 Red=Cloning site Green=Tags(s)

MGEPSREEYKIQSFDAETQQLLKTALKVACFETEDGEYSVCQRSYSNCSRLMPSRCNTQYRDPGAVDLEK
 VANVIVDHSLQDCVFSKEAGRMCYAI IQAESKQAGQSVFRRGLLNRLQQEYQAREQLRARS LQGWCYVT
 FICNIFDYLRVNNMPPMALVNPVYDCLFRLAQPDLSKEEEVDCLVLQLHRVGEQLEKMNGQRMDEL FVL
 IRDGFLLP TGLSSLAQLLLLLLEIEFRAAGWKTPAAHKY YSEVSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6019_b09.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_020679

ORF Size: 768 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_020679.3](#)

RefSeq Size: 1441 bp

RefSeq ORF: 771 bp

Locus ID: 57409

UniProt ID: [A9UHW6](#)

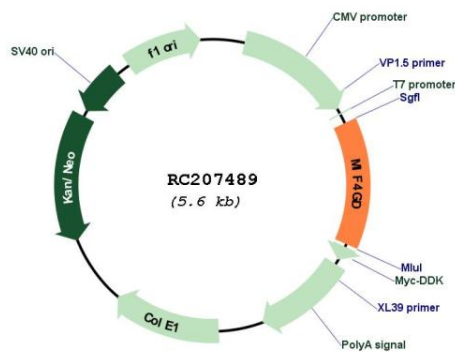
Cytogenetics: 17q25.1

Domains: MIF4G, MA3

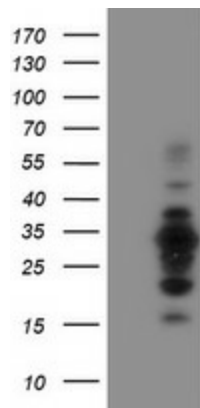
MW: 29.4 kDa

Gene Summary: This gene encodes a protein which interacts with the N-terminus of the stem-loop binding protein (SLBP) and the 3' end of histone mRNA. This interaction facilitates the activation of histone mRNA translation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011]

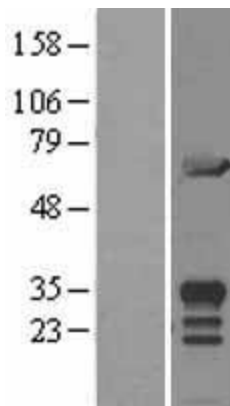
Product images:



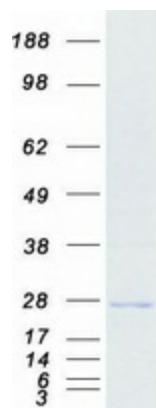
Circular map for RC207489



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MIF4GD (Cat# RC207489, 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-MIF4GD(Cat# [TA504443]). Positive lysates [LY402799] (100ug) and [LC402799] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402799]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207489 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MIF4GD protein (Cat# [TP307489]). The protein was produced from HEK293T cells transfected with MIF4GD cDNA clone (Cat# RC207489) using MegaTran 2.0 (Cat# [TT210002]).