

Product datasheet for RC217163

MFGE8 (NM_005928) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFGE8 (NM_005928) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MFGE8
Synonyms:	BA46; EDIL1; HMFG; hP47; HsT19888; MFG-E8; MFGM; OAcGD3S; SED1; SPAG10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217163 representing NM_005928 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCGCCCCGCTGCTGGCCGCGCTGTGCGGCGCGCTGCTCTGCGCCCCAGCCTCCTCGTCGCCC
TGGATATCTGTTCAAAAACCCCTGCCACAACGGTGGTTATGCGAGGAGATTTCCCAAGAAGTGCAGG
AGATGTCTTCCCCTCGTACACCTGCACGTGCCTTAAGGGCTACGCGGGCAACCACTGTGAGACGAAATGT
GTCGAGCCACTGGCCTGGAGAATGGGAACATTGCCAACTCACAGATCGCCGCTCGTCTGTGCGTGTGA
CCTTCTTGGGTTTGCAGCATTGGGTCCCGGAGCTGGCCCGCTGAACCGCGCAGGCATGGTCAATGCCTG
GACACCCAGCAGCAATGACGATAAACCCTGGATCCAGGTGAACCTGCTGCGGAGGATGTGGGTAACAGGT
GTGGTGACGCAGGGTGCCAGCCGCTTGGCCAGTCATGAGTACCTGAAGGCCTTCAAGGTGGCCTACAGCC
TTAATGGACACGAATTCGATTTCCATCCATGATGTTAATAAAAAACACAAGGAGTTTGTGGGTAACGGAA
CAAAAACGCGGTGCATGTCAACCTGTTTGGAGCCCTGTGGAGGCTCAGTACGTGAGATTGTACCCACG
AGCTGCCACACGGCCTGCACTCTGCGCTTTGAGCTACTGGGCTGTGAGCTGAACGGATGCGCCAATCCCC
TGGCCTGAAGAATAACAGCATCCCTGACAAGCAGATCACGGCCTCCAGCAGCTACAAGACCTGGGGCTT
GCATCTTTCAGCTGGAACCCCTCCTATGCACGGCTGGACAAGCAGGGCAACTTCAACGCCTGGGTTGCG
GGGAGCTACGGTAACGATCAGTGGCTGCAGGTGGACCTGGGCTCCTCGAAGGAGTGACAGGCATCATCA
CCAGGGGCCCCGTAACCTTTGGCTCTGTCCAGTTTGTGGCATCCTACAAGGTTGCCTACAGTAATGACAG
TGCGAACTGGACTGAGTACCAGGACCCAGGACTGGCAGCAGTAAGATCTTCCCTGGCAACTGGGACAAC
CACTCCACAAGAAGAACTTGTGTTGAGACGCCATCCTGGCTCGTATGTGCGCATCCTGCCTGTAGCCT
GGCACAACCGCATCGCCCTGCGCCTGGAGCTGCTGGGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217163 representing NM_005928
Red=Cloning site Green=Tags(s)

MPPRLLAALCGALLCAPSLLVALDICKNPCHNGGLCEEISQEVRGDVFPSYCTCLKGYAGNHCETKC
 VEPLGLENGNIANSQIAASSVRVTFGLQHWPELARLNLRAGMVNAWTPSSNDDNPWIQVNLRRMWVTG
 VVTQGASRLASHEYLKAFKVAYSLNGHEFDIHDVNKKHKEFVGNWNKNVHVNLFETPVEAQYVRLYPT
 SHTACTLRFELLGCELNGCANPLGLKNNIPDKQITASSYKTWGLHLFSWNPYARLDKQGNFNAWVA
 GSYGNDQWLQVDLGSSEKVTGIITQGARNFGSVQFVASYKVAYSNDSANWTEYQDPRTGSSKIFPGNWDN
 HSHKKNLFETPILARYVRILPVAWHNRIALRLELLGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6046_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_005928

ORF Size: 1161 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_005928.4](#)

RefSeq Size: 1934 bp

RefSeq ORF: 1164 bp

Locus ID: 4240

UniProt ID: [Q08431](#)

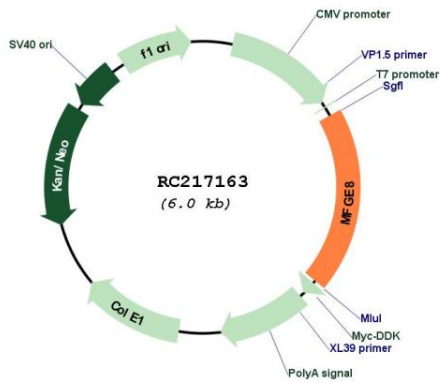
Cytogenetics: 15q26.1

Domains: F5_F8_type_C, EGF, EGF

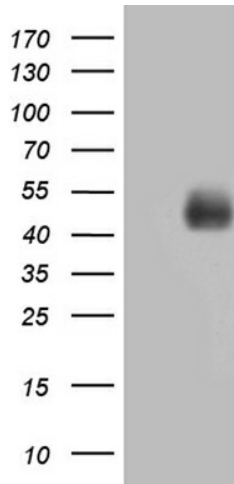
MW: 42.9 kDa

Gene Summary: This gene encodes a preproprotein that is proteolytically processed to form multiple protein products. The major encoded protein product, lactadherin, is a membrane glycoprotein that promotes phagocytosis of apoptotic cells. This protein has also been implicated in wound healing, autoimmune disease, and cancer. Lactadherin can be further processed to form a smaller cleavage product, medin, which comprises the major protein component of aortic medial amyloid (AMA). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]

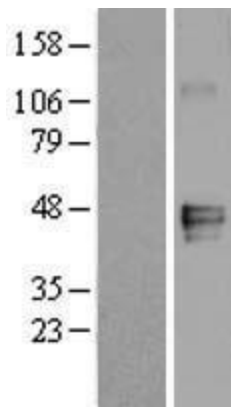
Product images:



Circular map for RC217163



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MFGE8 (Cat# RC217163, 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-MFGE8 (Cat# [TA809279])(1:2000). Positive lysates [LY401796] (100ug) and [LC401796] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401796]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217163 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MFGE8 protein (Cat# [TP317163]). The protein was produced from HEK293T cells transfected with MFGE8 cDNA clone (Cat# RC217163) using MegaTran 2.0 (Cat# [TT210002]).