

Product datasheet for **RG217163**

MFGE8 (NM_005928) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MFGE8 (NM_005928) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MFGE8 |
| Synonyms: | BA46; EDIL1; HMFG; hP47; HsT19888; MFG-E8; MFGM; OAcGD3S; SED1; SPAG10 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG217163 representing NM_005928 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCGCCCCGCTGCTGGCCGCGCTGTGCGGCGCGCTGCTCTGCGCCCCAGCCTCCTCGTCGCCC
TGGATATCTGTTCAAAAACCCCTGCCACAACGGTGGTTATGCGAGGAGATTTCCCAAGAAGTGCAGG
AGATGTCTTCCCCTCGTACACCTGCACGTGCCTTAAGGGCTACGCGGGCAACCACTGTGAGACGAAATGT
GTCGAGCCACTGGGCATGGAGAATGGGAACATTGCCAACTCACAGATCGCCGCCTCATCTGTGCGTGTGA
CCTTCTTGGGTTTGCAGCATTGGGTCCCGGAGCTGGCCCGCTGAACCGCGCAGGCATGGTCAATGCCTG
GACACCCAGCAGCAATGACGATAAACCCTGGATCCAGGTGAACCTGCTGCGGAGGATGTGGGTAACAGGT
GTGGTGACGCAGGGTGCCAGCCGCTTGGCCAGTCATGAGTACCTGAAGGCCTTCAAGGTGGCCTACAGCC
TTAATGGACACGAATTCGATTTTCATCCATGATGTTAATAAAAAACACAAGGAGTTTGTGGGTAACGGAA
CAAAAACGCGGTGCATGTCAACCTGTTTGGAGCCCTGTGGAGGCTCAGTACGTGAGATTGTACCCACG
AGCTGCCACACGGCCTGCACTCTGCGCTTTGAGCTACTGGGCTGTGAGCTGAACGGATGCGCCAATCCCC
TGGCCTGAAGAATAACAGCATCCCTGACAAGCAGATCACGGCCTCCAGCAGCTACAAGACCTGGGGCTT
GCATCTTTCAGCTGGAACCCCTCCTATGCACGGCTGGACAAGCAGGGCAACTTCAACGCCTGGGTTGCC
GGGAGCTACGGTAACGATCAGTGGCTGCAGGTGGACCTGGGCTCCTCGAAGGAGGTGACAGGCATCATCA
CCAGGGGCCCCGTAACCTTTGGCTCTGTCCAGTTTGTGGCATCCTACAAGGTTGCCTACAGTAATGACAG
TGCGAACTGGACTGAGTACCAGGACCCAGGACTGGCAGCAGTAAGATCTTCCCTGGCAACTGGGACAAC
CACTCCACAAGAAGAACTTGTGTTGAGACGCCATCCTGGCTCGTATGTGCGCATCCTGCCTGTAGCCT
GGCACAACCGCATCGCCCTGCGCCTGGAGCTGCTGGGCTGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217163 representing NM_005928
 Red=Cloning site Green=Tags(s)

MPPRLLAALCGALLCAPSLLVALDICKNPNCHNGGLCEEISQEVRGDVFPSYCTCLKGYAGNHCEKTC
 VEPLGMENGNIAANSQIAASSVRVTFGLQLHWVPELARLNLRAGMVNAWTPSSNDDNPWIQVNLRRMWVTG
 VVTQGASRLASHEYLKAFKVAAYSLNGHEFDFIHDVNKKHKEFVGNWNKNVHVNLFETPVEAQYVRLYPT
 SHTACTLRFELLGCELNGCANPLGLKNNIPDKQITASSYKTWGLHLFSWNPSYARLDKQGNFAWVA
 GSYGNDQWLQVDLGSSEKVTGIITQGARNFQSVQFVASYKVAYSNDSANWTEYQDPRTGSSKIFPGNWDN
 HSHKKNLFETPILARYVRILPVAWHNRIALRLELLGC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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_005928.1](#), [NP_005919.1](#)

RefSeq Size: 1934 bp

RefSeq ORF: 1164 bp

Locus ID: 4240

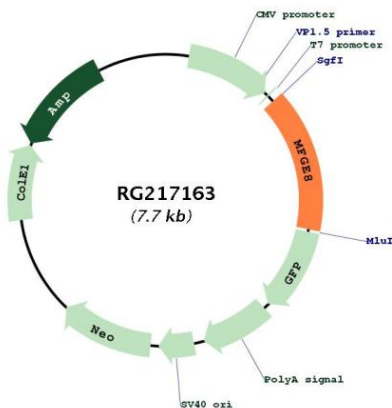
UniProt ID: [Q08431](#)

Cytogenetics: 15q26.1

Domains: F5_F8_type_C, EGF, EGF

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 RG217163