

Product datasheet for **MR206789**

Mfge8 (NM_001045489) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfge8 (NM_001045489) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mfge8
Synonyms:	AA408458; AI325141; lactadherin; MFG-E8; Mfgm; MP47; P47; SED1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206789 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGTCTCCCGTGTGCTGGCCGCGCTGTGCGGCATGCTACTCTGCGCCTCTGGCCTCTTCGCCGCGT
 CTGGTGACTTCTGTGACTCCAGCCTGTGCTGAACGGTGGCACCTGCTTGACGGGCAAGACAATGACAT
 CTA CTGCTCTGCCCTGAAGGCTTCACAGGCTTGTGTGCAATGAGACTGAGAGAGGACCATGCTCCCCA
 AACCTTGTCTACAATGATGCCAAATGTCTGGTACTTTGGACACACAGCGTGGGACATCTTCACCGAAT
 ACATCTGCCAGTGCCCTGTGGCTACTCGGCATCCACTGTGAAACCGGTTGTTCTACACAGCTGGGCAT
 GGAAGGGGGCGCCATTGCTGATTCACAGATTTCCGCTCGTCTGTGTATATGGGTTTCATGGCTTGACG
 CGTGGGGCCCGAGCTGGCTCGTGTACCGCACAGGGATCGTCAATGCCTGGACAGCCAGCAACTATG
 ATAGCAAGCCCTGGATCCAGGTGAACCTTCTGCGGAAGATGCGGGTATCAGGTGTGATGACGCGGGTGC
 CAGCCGTGCCGGGAGGGCGGAGTACCTGAAGACCTTCAAGGTGGCTTACAGCCTCGACGGACGCAAGTTT
 GAGTTTCATCCAGGATGAAAGCGGTGGAGACAAGGAGTTTTTGGGTAACTGGACAACAACAGCCTGAAGG
 TTAACATGTTCAACCCGACTCTGGAGGCACAGTACATAAGGCTGTACCCTGTTTCGTGCCACCGCGGCTG
 CACCCTCCGCTTCGAGCTCCTGGGCTGTGAGTTGCACGGATGTTCTGAGCCCTGGGCTGAAGAATAAC
 ACAATTCCTGACAGCCAGATGTCAGCCTCCAGCAGCTACAAGACATGGAACCTGCGTGCTTTTGGCTGGT
 ACCCCACTTGGGAAGGCTGGATAATCAGGGCAAGATCAATGCCTGGACGGCTCAGAGCAACAGTGCCAA
 GGAATGGCTGCAGTTGACCTGGCACTCAGAGGCAAGTGACAGGAATCATCACCCAGGGGGCCCGTGAC
 TTTGGCCACATCCAGTATGTGGCGTCTACAAGGTAGCCACAGTGATGATGGTGTGAGTGGACTGTAT
 ATGAGGAGCAAGGAAGCAGCAAGGTCTTCCAGGGCAACTTGGACAACAACCTCCACAAGAAGAACATCTT
 CGAGAAACCTTCATGGCTCGTACGTGCGTGTCTTCCAGTGTCTGGCATAACCGCATCACCTGCGC
 CTGGAGCTGCTGGGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206789 protein sequence
 Red=Cloning site Green=Tags(s)

MQVSRVLAALCGMLLCASGLFAASGDFCDSSLCLNGGTCLTGQDNDIYCLCPEGFTGLVCNETERGPCSP
 NPCYNDACLVTLDTRQGDIFTEYICQCPVGYSGIHCETGCSTQLGMEGGAIADSQISASSVYMGFMGLQ
 RWGPELARLYRTGIVNAWTASNYDSKPWIQVNLRLKMRVSGVMTQGASRAGRAEYLKTFKVAYSLDGRKF
 EFIQDESGGDKFELGNDNNSLKVNMFNPTLEAQYIRL YPVSCHRGT LRFELLGCELHGCSEPLGLKNN
 TIPDSQMSASSYKTWNLRAFGWYPHLGRLDNQKINAWTAQSNSAKEWLQVDLGTQRQVTGIITQGARD
 FGHIQYVASYKVAHSDDGWQWTVYEEQGSKVFQGNLDNNSHKKNIFEKPFMARYVRVLPVSWHNRITLR
 LELLGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001045489

ORF Size: 1281 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

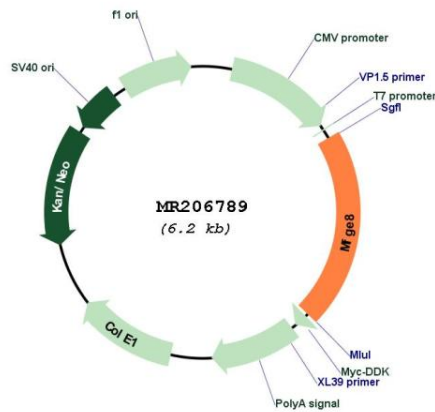
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_001045489.1](#), [NP_001038954.1](#)

RefSeq Size: 2032 bp
RefSeq ORF: 1281 bp
Locus ID: 17304
Cytogenetics: 7 44.9 cM
MW: 47.2 kDa

Gene Summary: Contributes to phagocytic removal of apoptotic cells in many tissues. Specific ligand for the alpha-v/beta-3 and alpha-v/beta-5 receptors. Also binds to phosphatidylserine-enriched cell surfaces in a receptor-independent manner. Zona pellucida-binding protein which may play a role in gamete interaction (By similarity). Plays an important role in the maintenance of intestinal epithelial homeostasis and the promotion of mucosal healing. Promotes VEGF-dependent neovascularization.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206789