

## Product datasheet for **MR224125**

### **Mfge8 (NM\_008594) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mfge8 (NM_008594) 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:**

>MR224125 representing NM\_008594  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGGTCTCCCGTGTGCTGGCCGCGCTGTGCGGCATGCTACTCTGCGCCTCTGGCCTCTTCGCCGCGT  
 CTGGTGACTTCTGTGACTCCAGCCTGTGCTGAACGGTGGCACCTGCTTGACGGGCAAGACAATGACAT  
 CTA CTGCTCTGCCCTGAAGGCTTCACAGGCTTGTGTGCAATGAGACTGAGAGAGGACCATGCTCCCCA  
 AACCCCTTGCTACAATGATGCCAAATGTCTGGTACTTTGGACACACAGCGTGGGACATCTTCACCGAAT  
 ACATCTGCCAGTCCCTGTGGGCTACTCGGCATCCACTGTGAAACCGAGACCACTACTACAACCTGGA  
 TGGAGAATACATGTTACCACAGCCGTCCTCAATACTGCCGTCACCCCGGCCCCACCCCGATCTT  
 TCCAACAACCTAGCCTCCGTTGTTCTACACAGCTGGGCATGGAAGGGGGGCCATTGTGATTCACAGA  
 TTTCCGCCTCGTCTGTATATGGGTTTTCATGGGCTTGCAGCGCTGGGGCCCGGAGCTGGCTCGTCTGTA  
 CCGCACAGGGATCGTCAATGCCTGGACAGCCAGCAACTATGATAGCAAGCCCTGGATCCAGGTGAACCTT  
 CTGCGGAAGATGCGGGTATCAGGTGTGATGACGCAAGGTGCCAGCCGTGCCGGGAGGGCGGAGTACCTGA  
 AGACCTTCAAGGTGGCTTACAGCCTCGACGACGCAAGTTTGAAGTTTCAAGGATGAAAGCGGTGGAGA  
 CAAGGAGTTTTGGGTAACCTGGACAACAACAGCCTGAAGGTTAACATGTTCAACCCGACTCTGGAGGCA  
 CAGTACATAAAGCTGTACCCTGTTTCGTGCCACCCGCGCTGCACCCTCCGCTTCGAGCTCCTGGGCTGTG  
 AGTTGCACGGATGTTCTGAGCCCTGGGCTGAAGAATAACACAATTCTGACAGCCAGATGTCAGCCTC  
 CAGCAGCTACAAGACATGGAACCTGCGTCTTTGGCTGGTACCCCACTTGGGAAGGCTGGATAATCAG  
 GGCAAGATCAATGCCTGGACGGCTCAGAGCAACAGTGCCAAGGAATGGCTGCAGGTTGACCTGGGCACTC  
 AGAGGCAAGTGACAGGAATCATCACCCAGGGGGCCGCTGACTTTGGCCACATCCAGTATGTGGCGTCTCA  
 CAAGGTAGCCACAGTGTGATGGTGTGCAAGTGTATATGAGGAGCAAGGAAGCAGCAAGGTCTTC  
 CAGGGCAACTTGACAACAACCTCCACAAGAAGAACATCTTCGAGAAACCTTCATGGCTCGCTACGTGC  
 GTGTCTTCCAGTGTCTGGCATAACCGCATCACCTGCGCCTGGAGCTGCTGGGCTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224125 representing NM\_008594  
 Red=Cloning site Green=Tags(s)

MQVSRVLAALCGMLLCASGLFAASGDFCDSSCLNNGTCLTGQDNDIYCLCEPFGTGLVCNETERGPCSP  
 NPCYNDACLVTLDTRQGDIFTEYICQCPVGYSGIHCE TETNYNLDGEYMF TTA VPNTAVPTPAPTDL  
 SNNLASRCSTQLGMEGGA IADSQI SASSVYMGFMGLQRWGPELARLYRTGIVNAWTASNYDSKPWIQVNL  
 LRKMRVSGVMTQGASRAGRAEYLKTFKVAYS LDGRKFEFIQDESGDKEFLGNLDNNSLKVNMFNPTLEA  
 QYIKLYPVYVSRGCTLRFELLGCELHGCSEPLGLKNNTIPDSQMSASSYKTWNLRAFGWYPHLGRLDNQ  
 GKINAWTAQSNSAKEWLQVDLGTQRQVTGIIITQGARDFGHIQYVASYKVAHSDDGQWTVYEEQGS SKVF  
 QGNLDNNSHKKNIFEKPFMARYVRVLPVSWHNRITLRLELLGC

**TR**TRPLEQ**KL**I SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1894\\_f07.zip](https://cdn.origene.com/chromatograms/ja1894_f07.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_008594

**ORF Size:** 1389 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](mailto: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).

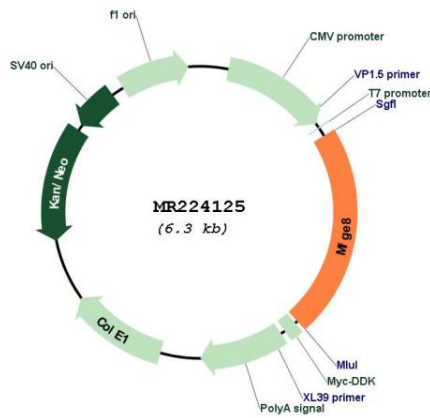
**Reconstitution Method:**

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\\_008594.2, NP\\_032620.2](#)  
**RefSeq Size:** 2143 bp  
**RefSeq ORF:** 1392 bp  
**Locus ID:** 17304  
**UniProt ID:** [P21956](#)  
**Cytogenetics:** 7 44.9 cM  
**MW:** 51.7 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 MR224125