

## Product datasheet for **RG225489**

### **MFGE8 (NM\_001114614) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MFGE8 (NM\_001114614) 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:** >RG225489 representing NM\_001114614  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGCGCCCCGCTGCTGGCCGCGCTGTGCGGCGGCTGCTCTGCGCCCCAGCCTCCTCGTCGCCC  
TGGATATCTGTTCCAAAACCCCTGCCACAACGGTGGTTATGCGAGGAGATTTCCAAGAAGTGCAGG  
AGATGTCTTCCCCTCGTACACCTGCACGTGCCTTAAGGGCTACGCGGGCAACCACTGTGAGACGAAATGT  
GTCGAGCCACTGGCCTGGAGAATGGGAACATTGCCAACTCACAGATCGCCGCTCGTCTGTGCGTGTGA  
CCTTCTTGGGTTTGCAGCATTGGGTCCCGGAGCTGGCCCGCTGAACCGCGCAGGCATGGTCAATGCCTG  
GACACCCAGCAGCAATGACGATAAACCCTGGATCCAGGTGAACCTGCTGCGGAGGATGTGGGTAACAGGT  
GTGGTGACGCAGGTTGCCAGCCGCTTGGCCAGTCATGAGTACCTGAAGGCCTTCAAGGTGGCCTACAGCC  
TTAATGGACACGAATTCGATTTTCATCCATGATGTTAATAAAAAACACAAGGAGTTTGTGGGTAACGGAA  
CAAAAACGCGGTGCATGTCAACCTGTTTGGAGCCCTGTGGAGGCTCAGTACGTGAGATTGTACCCACG  
AGCTGCCACACGGCCTGCACTCTGCGCTTTGAGCTACTGGGCTGTGAGCTGAACGGATGCGCCAATCCCC  
TGGCCTGAAGAATAACAGCATCCCTGACAAGCAGATCACGGCCTCCAGCAGCTACAAGACCTGGGGCTT  
GCATCTCTCAGCTGGAACCCCTCCTATGCACGGCTGGACAAGCAGGGCAACTTCAACGCCTGGGTTGCG  
GGGAGCTACGGTAACGATCAGTGGCTGCAGATCTCCCTGGCAACTGGGACAACCACTCCACAAGAAGA  
ACTTGTGAGACGCCCATCCTGGCTCGCTATGTGCGCATCCTGCCTGTAGCCTGGCACAACCCGCATCGC  
CCTGCGCCTGGAGCTGCTGGGCTGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225489 representing NM\_001114614  
 Red=Cloning site Green=Tags(s)

MPRPRLAALCGALLCAPSLLVALDICKNPCHNGGLCEEISQEVVRGDVFPSTCTCLKGYAGNHCETKC  
 VEPLGLENGNIANSQIAASSVRVTFGLQLQHWPELARLNRMVNAWTPSSNDDNPWIQVNLRRMWVTG  
 VVTQASRLASHEYLKAFKVAVSLNGHEFDIHDVNNKKHKEFVGNWNKNVHVNLFETPVEAQYVRLYPT  
 SHTACTLRFELLGCELNGCANPLGLKNSIPDKQITASSSYKTWGLHLFSWNPSYARLDKQGNFNAWVA  
 GSYGNDQWLQIFPGNWDNHSKKNLFETPILARYVRILPVAWHNRIALRLELLGC

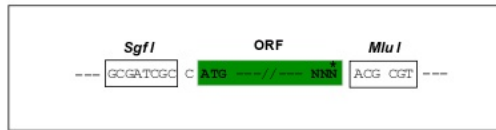
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2283\\_a05.zip](https://cdn.origene.com/chromatograms/ja2283_a05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001114614

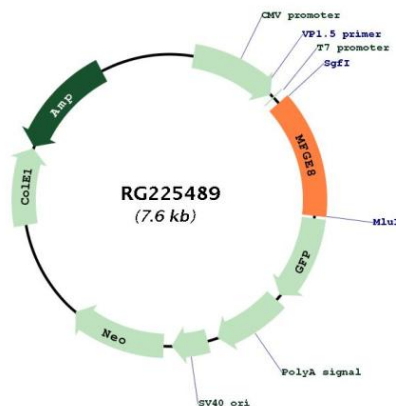
**ORF Size:** 1005 bp

**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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001114614.3</a>
<b>RefSeq Size:</b>	1849 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	4240
<b>UniProt ID:</b>	<a href="#">Q08431</a>
<b>Cytogenetics:</b>	15q26.1
<b>Gene Summary:</b>	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 RG225489