

## Product datasheet for MR222146

### Emd (NM\_007927) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Emd (NM_007927) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Emd
Synonyms:	AW550900; Sta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222146 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGACTATGCGTTTTGTCCGATACTGAGCTGGCCGAGTGTACGCCAGTACAACATCCCTCATG  
GGCCTATTGTGGTTCCACTCGCAAGCTCTACGAAAAGAAAATCTTCGAGTACGAGACCCAGAGAAGGAG  
ACTTTACCCCCAACTCGTCATCTTCTTCATTCTCTATCAGTTCTCAGACTTGGATTCAGCCGCCGTG  
GACTCAGACATGTATGATCTGCCAAAAAAGAAGACGCCTTACTTTACCAGAGCAAGGACTATAATGATG  
ACTACTATGAGGAGAGTTATTTGACCACCAAGACATACGGGGAGCCTGAGTCTGTGGCATGTCCAAGAG  
CTTCGCCAGCCGGGACCTCACTTGTAGATGCTGATACCTTCCATCACCAGGTGCGTGATGACATTTTC  
TCTTCTTTAGAAGAGGAAGGCAAGGATAGGGAGCGCCTCATCTATGGCCAAGACAGTGCCTACCAGAGCA  
TCGCACACTACCGCCCCATTTCCAATGTCTCCAGGAGCTCTGGGCTTATCATATTATCTACATCCTC  
CACCTCTTCTGTGCTCCTCCTTTCATCTTCTCCCTCTTCATGGCTTACCCGACGTGCCATTTCGGCCAGAG  
AAGCAGGCCCTGCTGCTGCTCTGGCCAGGATCGACAGGTCCCCTCTGGGGCCAGCTGTTACTCTTCC  
TGGTCTTTGCTGCCTTTCTGCTCTTTGTTACTATTCCATACAAGCTGAAGAAGGCAACCCCTTCTGGAT  
GGATCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222146 protein sequence  
 Red=Cloning site Green=Tags(s)

MDDYAVLSDELA AAVLRQYNIPHGPIVGSTRKLYEKKIFEYETQRRLLPPNSSSSSFYQFSDLDSAAV  
 DSDMYDLPKKEDALLYQSKDYNDYYEESYLTTKTYGEPESVGMKSFRRQPGTSLVDADTFHHQVRDDIF  
 SSLEEEGKDRERLIYQDSAYQSI AHYRPISNVSRSLLGLSYYPTSSTSSVSSSSSPSSWLTRRAIRPE  
 KQAPAAALGQDRQVPLWGQLLLFLVFAAFLLFVYYSIQAEEGNPFWM DP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_007927

**ORF Size:** 780 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.

**RefSeq:** [NM\\_007927.3](#), [NP\\_031953.1](#)

**RefSeq Size:** 1601 bp

**RefSeq ORF:** 780 bp

**Locus ID:** 13726

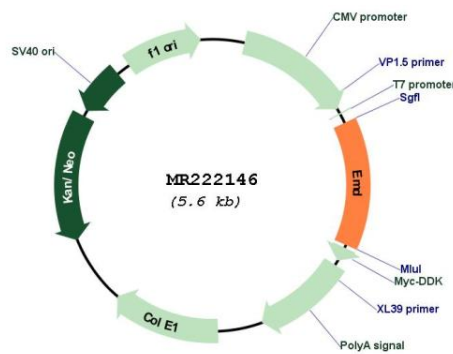
**UniProt ID:** [O08579](#)

**Cytogenetics:** X 37.92 cM

**MW:** 29.4 kDa

**Gene Summary:** This gene is the founding member of the LEM (Lap2beta, Emerin, and Man1) domain gene family. It encodes an integral membrane protein of the inner nuclear membrane. This gene may be involved in transcriptional regulation and genomic organization. In humans, mutations in this gene cause a class of diseases called laminopathies, which includes Emery-Dreifuss muscular dystrophy (EDMD). [provided by RefSeq, Apr 2013]

### Product images:



Circular map for MR222146