

Product datasheet for **MR208978**

Eme1 (NM_177752) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Eme1
Synonyms:	6820428D13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR208978 representing NM_177752
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTGGACAGTACAAAATCGAGAGAGTTTGGGGCTTCTCTTTTCCCGTGATGGTTGCTATGTTTGT
 GTGCACACAGCTCCAATGAACCCAGCAACATGTACATCGTGAAGAGACAGTGGACCGACTGCTCAAAGG
 ATATGACATTCGCTTGCAGGCGGACTTTGGAGGGCCCCCGGTGGACGTCGGGATGCGGATCGATGTCGCC
 AGCATAGACATGGTCTCGGAAGTGAATATGGATTATACACTCACCATGTATTTCCAGCAGTCTTGAAGG
 ACAAGAGGCTTTTCAATTTCTGGAATCCATTAAATCTGACCTTGACAACAGAGTAGCTGACCAACTCTG
 GGTACCAGACACCTACTTTCTCAATGACAAGAAATCATTGTGCATGGGGTCACAGTGAAAAACCGAATG
 ATCAGGCTGCATCTGATGGAAGTGTCTCTATGGACTACGGATCACAACCACTGCAGCATGCATGATGG
 ATCTTCGAAGATACCTCTGGATGAGCAAACTGCACCCTGGAGATTGAAAGTTATGGCTATACCACGGA
 TGACATCGAATTTTACTGGAATGGAGGAGGGAGCAGTAAGTGGGGTCAATAAAATTGAGCTTCCCAA
 TTTTCAATTGTTGACTACAAGATGGTGTCCAAGAAGGTGGAGTTCACAACAGGGGCATATCCACGACTAT
 CACTAAGTTTTCTGCTAAAGAGAAACATTGGTTACTTCATTTTGCAGACCTACATGCCTTCCACACTGAT
 TACAATCCTGTCTGGGTGTCGTTTTGGATCAACTATGATGCATCTGCAGCCAGAGTCGCACTAGGAATC
 ACTACGGTGCTGACCATGACCACATCAGCACTCACCTCAGGGAGACTTTGCCGAAGATCCCTTACGTCA
 AAGCGATTGACATCTATCTCATGGGCTGTTTTGTGTTGTGTTCTGGCTCTACTGGAATATGCTTTTGT
 CAATTACATTTTCTCGAAAAGGCCCTCAGAAAAAGGGAGCGAGCAAAACAGACCAGAGTGCCAAATGAA
 AAGAACAGACTGGAGATGAACAAAGTCCAAGTTGATGCCCACGGCAATATTCTCCTCAGCACCTTGAA
 TCAGGAACGAGACAGTGGCTCCGAGGTGCTCACAGGTGAAGTGACCCCAAGGCCACCATGTAATCGTA
 CGACAGCGCCAGCATCCAGTACCGCAAGCCACTGAGCAGCCGCGAGGGCTTCGGGCGTGGGCTGGACAGG
 CACGGGGTACCGGGCAAGGGGCGCATCCGAGGCGCGCTCGCAGCTCAAAGTGAAGATCCCGACTTGA
 CTGACGTGAATCCATAGACAAGTGGTCCGAATGTTCTTCCCATCACCTTTCTCTTTTAATGTCGT
 TTATTGGCTTTACTATGTACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >MR208978 representing NM_177752
 Red=Cloning site Green=Tags(s)

MWTVQNRESLGLLSFPVMVAMVCAHSSNEPSNMSYVKETVDRLKGYDIRLRPDFGGPPVDVGMRIDVA
 SIDMVSEVNMDYTLTMYFQQSWKDKRLSYSGIPLNLTLDNRVADQLWVPDLYFLNDKKSFVHGVTVKNR
 IRLHPDGTLYGLRITTTAACMMDLRRYPLDEQNCTLEIESYGYTTDDIEFYWNGGEGAVTGYNKIELPQ
 FSIVDYKVMVSKKVEFTTGAYPRLSLSFRLKRNIGYFILQTYMPSTLITLSWVSFWINYDASAARVALGI
 TTVLTMTTISTHLRETLPIPYVKAIDILMGCFFVFLALLEYAFVNYIFFGKGPKKKGASKQDQSANE
 KNRLEMNKVQVDAHGNILLSTLEIRNETSGSEVLTGVSDPKATMYSYDSASIQYRKPLSSREGFGRGLDR
 HGVPKGGRIRRRASQLKVKIPDLTDVNSIDKWSRMFFPITFSLFNVVYWLYYVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9017_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177752

ORF Size: 1422 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 Size: 2228 bp

RefSeq ORF: 1713 bp

Locus ID: 268465

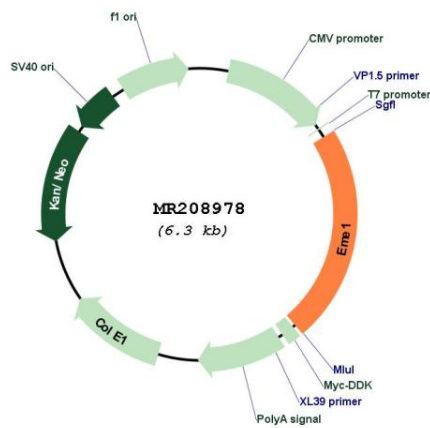
UniProt ID: [Q8BJW7](#)

Cytogenetics: 11 D

MW: 63.9 kDa

Gene Summary: Interacts with MUS81 to form a DNA structure-specific endonuclease with substrate preference for branched DNA structures with a 5'-end at the branch nick. Typical substrates include 3'-flap structures, replication forks and nicked Holliday junctions. May be required in mitosis for the processing of stalled or collapsed replication forks.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208978