

Product datasheet for MR225061

Eri1 (NM_026067) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eri1 (NM_026067) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eri1
Synonyms:	3'hexo; 3110010F15Rik; eri-1; Thex1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225061 representing NM_026067 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGACGAGCGGGCCGGGAGCGTGGCGGCGACGCGGCGCAGCAGAAGACGCCGCGGGAGTGTG
AGGAGTCCCGCCGCTGAGCGTGGAGAAAAAGCAGCGATGCAGACTTGATGGCAAAGAGACAGATGGATC
GAAGTTCATTTCTCCAATGGCAGTGACTTCAGTGACCCGGTTTACAAGAGATCGCAATGACAAACGGT
TGATCAACCGGATGAGTAAGGAGGAAGCTCAGAGCTAACTTTTCAAGTTAAGCTTGAACAAGAGGAG
TCAAGGATGTTCTAAAGAAGAGACTGAAAACTATTACAAGAAGCAGAAGTTGATGCTGAAAGAGAGCTC
CGCTGGGACAGTTACTATGACTACATTTGTATCATTGACTTTGAGGCTACTTGTGAAGAGGGGAACCCA
GCTGAGTTCCTACATGAAATCATTGAGTTTCTGTGTCTGTTGAATACACACACCTTAGAAATCGAAG
ATACGTTTCAGCAGTATGTGAGGCCAGAAGTCAATGATCAGCTTTCAGAGTTCTGCATCGGTCTTACTGG
AATCACTCAGGATCAGGTAGACAGAGCCGATGCTTCCCTCAGGTCTGAAAAAGTGATTGAGTGGATG
AAGTCAAAGGAGTTGGAACTAAGTACAAGTACTGTATACTAACAGATGGCTCCTGGGATATGAGTAAGT
TCCTGAGCATCCAGTGCCGGCTCAGCAGACTCAAACCCCGCCTTCGTAAGAAGTGGATCAATATCCG
GAAGTCATACGGAACTTCTATAAGGTTCCAGAAAGCCAGACAACTAACAATAATGCTTGAAAAATTA
GGAATGGATTATGATGGACGGCTCACAGCGGCTCGATGACTAAGAACATTGCTAGAATAGCTATTC
GGATGCTTCAGGATGGATGTGAAGTTCGAATCAATGAAAAAATACTTGGAGGGCAGTTGATGAGTGTGC
CTCATCCTTACCAGTAGAGGGCGCTCCAGCTCCACAGATGCCACATAGTAGAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225061 representing NM_026067
 Red=Cloning site Green=Tags(s)

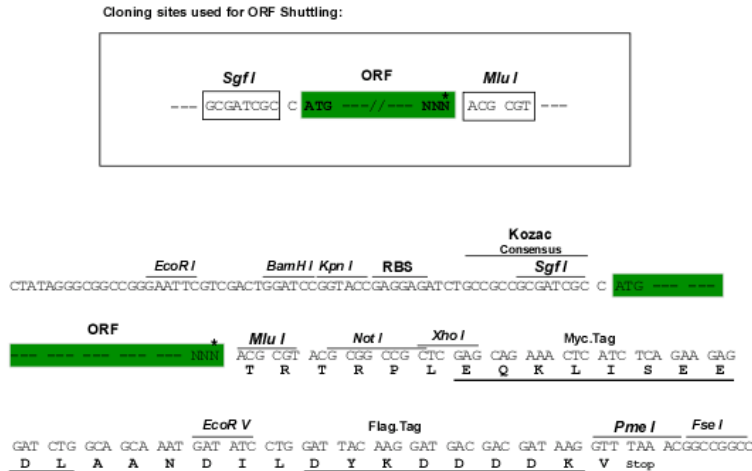
MEDERGRERGGDAAQQTTPRPECEESRPLSVEKKQRCRLDGKETDGSKFISSNGSDFSDPVYKEIAMTNG
 CINRMSKEELRAKLSEFKLETRGVKDVLLKKRLKNYYKKQKMLKESAGDSYYDYICIIDFEATCEEENP
 AEFLHEIIEFPVLLNTHLEIEDTFQQYVPEVNDQLSEFCIGLTGITQDQVDRADAFQVLKKVIEWM
 KSKELGTYKYKCYILTDGSWDMKFLSIQCRLSRLKHPAFAKKWINIRKSYGNFYKVPRSQTKLTIMLEKL
 GMDYDGRPHSGLDDSKNIAIRMLQDGCRLINEKILGGQLMSVSSSLPVEGAPAPQMPHSRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9077_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_026067

ORF Size: 1035 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_026067.3](#), [NP_080343.4](#)

RefSeq Size: 5067 bp

RefSeq ORF: 1038 bp

Locus ID: 67276

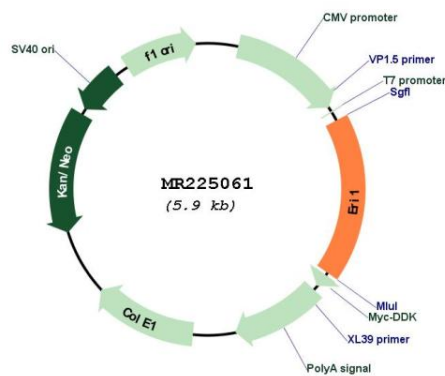
UniProt ID: [Q7TMF2](#)

Cytogenetics: 8 A4

MW: 39.6 kDa

Gene Summary: RNA exonuclease that binds to the 3'-end of histone mRNAs and degrades them, suggesting that it plays an essential role in histone mRNA decay after replication. A 2' and 3'-hydroxyl groups at the last nucleotide of the histone 3'-end is required for efficient degradation of RNA substrates. Also able to degrade the 3'-overhangs of short interfering RNAs (siRNAs) in vitro, suggesting a possible role as regulator of RNA interference (RNAi). Binds with high affinity to the 3' side of the stem-loop structure and to the downstream cleavage product (DCP) of histone pre-mRNAs. Requires for binding the 5'-ACCCA-3' sequence present in stem-loop structure. Able to bind other mRNAs (By similarity). Required for 5.8S rRNA 3'-end processing. Also binds to 5.8s ribosomal RNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225061