

## Product datasheet for **MG225061**

### Eri1 (NM\_026067) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eri1 (NM_026067) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eri1
Synonyms:	3'hexo; 3110010F15Rik; eri-1; Thex1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225061 representing NM_026067 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGACGAGCGGGGCGGGAGCGTGGCGGCGACGCGGCGCAGCAGAAGACGCCGCGGGAGTGTG  
AGGAGTCCCGCCGCTGAGCGTGGAGAAAAAGCAGCGATGCAGACTTGATGGCAAAGAGACAGATGGATC  
GAAGTTCATTTCTCCAATGGCAGTGACTTCAGTGACCCGGTTTACAAGAGATCGCAATGACAAACGGT  
TGATCAACCGGATGAGTAAGGAGGAAGCTCAGAGCTAACTTTTCAAGTTAAGCTTGAACAAGAGGAG  
TCAAGGATGTTCTAAAGAAGAGACTGAAAACTATTACAAGAAGCAGAAGTTGATGCTGAAAGAGAGCTC  
CGCTGGGACAGTTACTATGACTACATTTGTATCATTGACTTTGAGGCTACTTGTGAAGAGGGGAACCCA  
GCTGAGTTCCTACATGAAATCATTGAGTTTCTGTTGTCCTGTTGAATACACACACCTTAGAAATCGAAG  
ATACGTTTCAGCAGTATGTGAGGCCAGAAGTCAATGATCAGCTTTCAGAGTTCTGCATCGGTCTTACTGG  
AATCACTCAGGATCAGGTAGACAGAGCCGATGCTTCCCTCAGGTCTGAAAAAGTGATTGAGTGGATG  
AAGTCAAAGGAGTTGGAACTAAGTACAAGTACTGTATACTAACAGATGGCTCCTGGGATATGAGTAAGT  
TCCTGAGCATCCAGTGCCGGCTCAGCAGACTCAAACCCCGCCTTCGTAAGAAGTGGATCAATATCCG  
GAAGTCATACGGAACTTCTATAAGGTTCCAGAAAGCCAGACAACTAACAATAATGCTTGAAAAATTA  
GGAATGGATTATGATGGACGGCCTCACAGCGGTCTCGATGACTTAAGAACATTGCTAGAATAGCTATTC  
GGATGCTTCAGGATGGATGTGAAGTTCGAATCAATGAAAAATACTTGGAGGGCAGTTGATGAGTGTGTC  
CTCATCTTACCAGTAGAGGGCGCTCCAGCTCCACAGATGCCACATAGTAGAAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225061 representing NM\_026067  
 Red=Cloning site Green=Tags(s)

MEDERGRERGGDAAQQTTPRPECEESRPLSVEKKQRCRLDGKETDGSKFISSNGSDFSDPVYKEIAMTNG  
 CINRMSKEELRAKLSEFKLETRGVKDVLLKKRLKNYYKKQKMLMLKESSAGDSYYDYICIIDFEATCEEENP  
 AEFLHEIIEFPVLLNTHLEIEDTFQQYVRPEVNDQLSEFCIGLTGITQDQVDRADAFQVLKVIEWM  
 KSKELGTYKYKCYILTDGSDWMSKFLSIQCRLSRLKHPAFAKKWINIRKSYGNFYKVPRSQTKLTIMLEKL  
 GMDYDGRPHSGLDDSKNIAIRMLQDGCELRINEKILGGQLMSVSSSLPVEGAPAPQMPHSRK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

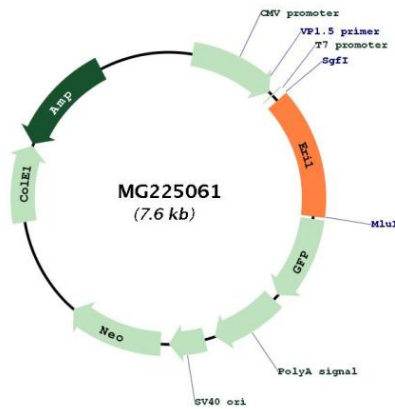
**Locus ID:** 67276

**UniProt ID:** [Q7TMF2](#)

**Cytogenetics:** 8 A4

**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 MG225061