

Product datasheet for **RN204120**

Eri1 (NM_001014143) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eri1 (NM_001014143) Rat Untagged Clone
Tag: Tag Free
Symbol: Eri1
Synonyms: RGD1308378; Thex1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN204120 representing NM_001014143
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGACGAGCGGGCCGGGAGCATGGCGGCGACGGCGCAGCAGAAGACGCCGCGCCAGAGTGTG
AGGAGTCCCGCCGCTGAGCGTGGAGAAAAAGCAGCGATGCAGACTTGATGGCAAAGACACAGATGGATC
TAAGTTCATAACCTCCAATGGCGGTGACTTCAGTGACCCGGTTTACAAAGAGATTGCAATGACAAATGGT
TGTATCAACAGGATGAGCAAGGAGGAGCTCAGAGCTAAACTTTTCAAGATTCAAGCTTGAAACAAGAGGAG
TCAAGGATGTTCTAAAGAAGAGACTGAAAACTATTACAAGAAGCAGAAGCTGATGCTGAAAGAAAGCAA
CGCCGTGGACAGTTACTATGACTATATTGATTATTGACTTTGAGGCCACCTGTGAAGAGGGGAACCCA
GCCGAGTTCCTACATGAAATTATTGAGTTTCTGTTGTTCTGTTGAATACACACAGCTTAGAGATCGAAG
ACACGTTTCAGCAGTATGTGAGACCAGAGGTGAATTCAGCTTTCAGAGTTCTGCATTGGTCTTACTGG
AATTACTCAGGATCAGGTAGACAGAGCCGATGCTTCCCTCAGGTCTGAAAAAGTAATCGAGTGGATG
AAGTCAAAGGAGTTGGAACTAAGTACAAATACTGCATATTAACAGATGGTTCCTGGGATATGAGTAAGT
TCTTAAACATCCAGTGCCAATAAGCAGACTCAAGTACCCTTCTTTGCTAAAAAGTGGTCAATATTTCG
CAAGTCTTACGGAACTTTTATAAGGTTCCAAGAAGCCAGACCAAATAACAATAATGCTTGAAAAATTA
GGCATGGATTATGATGGGCGACCTCACAGTGGTCTTGATGACTCTAAGAACATTGCTAGAATAGCGGTTT
GGATGCTTACAGGATGGATGTGAACCTTCAATCAATGAAAACTGCACGGAGGACAGCTAATGAGTGTGTC
CTCATCTTACCAGTAGAGGGCGCTCCAGCCCCACAGATGCCGCATAGTAGAAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001014143



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Insert Size:	1038 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>NM_001014143.1</u> , <u>NP_001014165.1</u>
RefSeq Size:	2896 bp
RefSeq ORF:	1038 bp
Locus ID:	361159
UniProt ID:	<u>Q5FVR4</u>
Cytogenetics:	16q12.2
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. Required for 5.8S rRNA 3'-end processing. Also binds to 5.8s ribosomal RNA (By similarity).[UniProtKB/Swiss-Prot Function]