

## Product datasheet for **RR204120**

### Eri1 (NM\_001014143) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Eri1 (NM\_001014143) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Eri1  
**Synonyms:** RGD1308378; Thex1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR204120 representing NM\_001014143  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGACGAGCGGGCCGGGAGCATGGCGGCGACGGCGCAGCAGAAGACGCCGCGCCAGAGTGTG  
AGGAGTCCCGCCGCTGAGCGTGGAGAAAAAGCAGCGATGCAGACTTGATGGCAAAGACACAGATGGATC  
TAAGTTCATAACCTCCAATGGCGGTGACTTCAGTGACCCGGTTTACAAAGAGATTGCAATGACAAATGGT  
TGTATCAACAGGATGAGCAAGGAGGAGCTCAGAGCTAAACTTTCAGAATCAAGCTTGAAACAAGAGGAG  
TCAAGGATGTTCTAAAGAAGAGACTGAAAACTATTACAAGAAGCAGAAGCTGATGCTGAAAGAAAGCAA  
CGCCGTGGACAGTTACTATGACTATATTGATTATTGACTTTGAGGCCACCTGTGAAGAGGGGAACCCA  
GCCGAGTTCCTACATGAAATTATTGAGTTTCTGTTGTTCTGTTGAATACACACAGCTTAGAGATCGAAG  
ACACGTTTCAGCAGTATGTGAGACCAGAGGTGAATTCAGCTTTCAGAGTTCTGCATTGGTCTTACTGG  
AATTACTCAGGATCAGGTAGACAGAGCCGATGCTTCCCTCAGGTCCTGAAAAAGTAATCGAGTGGATG  
AAGTCAAAGGAGTTGGAACTAAGTACAAATACTGCATATTAACAGATGGTTCCTGGGATATGAGTAAGT  
TCTTAAACATCCAGTGCCAATAAGCAGACTCAAGTACCCTTCTTTGCTAAAAAGTGGTCAATATTG  
CAAGTCTTACGGAACTTTTATAAGGTTCCAAGAAGCCAGACCAAATAACAATAATGCTTGAAAAATTA  
GGCATGGATTATGATGGGCGACCTCACAGTGGTCTTGATGACTCTAAGAACATTGCTAGAATAGCGGTT  
GGATGCTTACAGGATGGATGTGAACCTTCAATCAATGAAAACTGCACGGAGGACAGCTAATGAGTGTGTC  
CTCATCTTACCAGTAGAGGGCGCTCCAGCCCCACAGATGCCGCATAGTAGAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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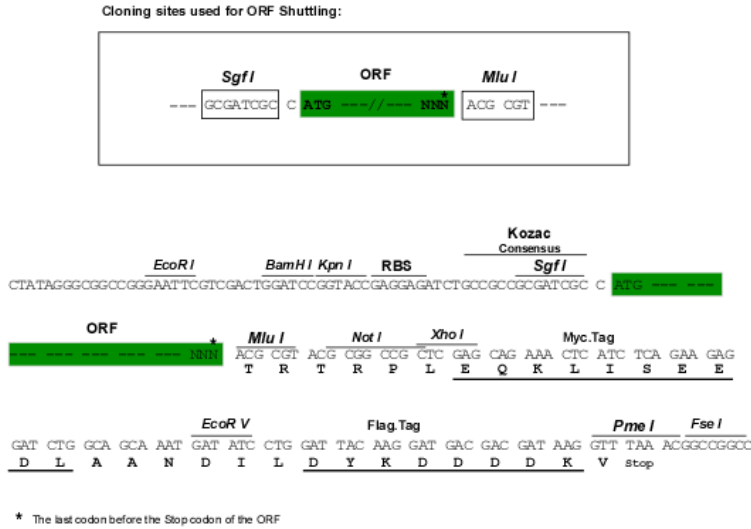
Protein Sequence: >RR204120 representing NM\_001014143  
 Red=Cloning site Green=Tags(s)

MEDERGREHGGDAAQQTTPRPECEESRPLSVEKKQRCRLDGKDTDGSKFITSNNGGDFSDPVYKEIAMTNG  
 CINRMSKEELRAKLSEFKLETRGVKDVLLKRLKNYYKKQKMLKESNAVDSYYDYICIIDFEATCEEENP  
 AEFLHEIIEFPVLLNTHSLEIEDTFQQYVRPEVNSQLSEFCIGLTGITQDQVDRADAFQVLKKVIEWM  
 KSKELGTYKYKCYILTDGSWDMSKFLNIQCQLSRLKYPFAKKWINIRKSYGNFYKVPRSQTKLTIMLEKL  
 GMDYDGRPHSGLDDSKNIARIAVRMLQDGCRLRINEKLGQQLMSVSSSLPVEGAPAPQMPHSRK

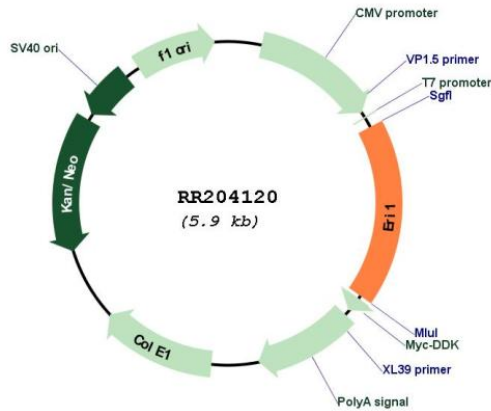
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001014143

ORF Size: 1035 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001014143.1</a> , <a href="#">NP_001014165.1</a>
<b>RefSeq Size:</b>	2896 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	361159
<b>UniProt ID:</b>	<a href="#">Q5FVR4</a>
<b>Cytogenetics:</b>	16q12.2
<b>MW:</b>	39.6 kDa
<b>Gene Summary:</b>	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]