

Product datasheet for **MR206974**

Eral1 (BC068271) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eral1 (BC068271) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eral1
Synonyms:	MERA-S, MERA-W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206974 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCCCCAGGCGGTACTGCGCTGGGCTCGTTCCGGCCTTGTAGGGGCCACAGGTGGGTTCCG
 ATGCAGGAGGGAATGGCTTGTCCGCCCGCTGTCTTAGGTAACAGGCGAGGTGCGTGTCTGTG
 CGTGGGCTCCACTTTCTCTGGTCCCCTCTGGCCTCGGCCTCTAGTCGTTATGGTCAGGACTCCGCCTG
 GACCGTATCCTTGGATTTCTCAGCCTGACAGTTCGTTGGTCCGAGCGTCCCGCGGTGTCGGTGCACA
 GAGATGAGCAGAATCTACTTTGGTGCACACTCCCGACATGCCTGAGAATCCACGGGCTCCCGGTGGT
 CCTCTGGGAGCCCAAATGCAGGGAAGTCAACACTTTCCAATCAGTGTGGGCCGTAAGTGTTCCT
 GTTCAAAGAAGGTGCACACCCTCGATGTCAAGCTCTGGGGTCATCACAGAGAAGGAGACCCAAGTGA
 TTCTGCTTGACACACCTGGCATCATCAGTCTGTTAAACAGAAGAGGCACCATCTGGAGCGCTTTTGT
 GGAAGATCCATGGACGAGCATGGAATCTGCTGATCTTGTGTAGTTCTTGTGGATGTGTCAGACAAGTGG
 ACCAGGAGTCGGCTCAACCCCGAGTGTGCAAGTCTGACCAAGTTCTCTCAGGTCCTAGCATCCTCG
 TCTTAAACAAGGTAGATTGCCTGAAGCAGAAGTCAAGTCTCTGGAGCTGACAGCAGCCCTCACTGAAGG
 GTTGTCAATGGCAAGAAGCTTAATATCAAGCAGGCCTTGCCTCACGCTCCAGCACCCACTGCCCTGGC
 CCTGAACTGAGGGCCCAAATGCACACTCAGTGAGGAACCTCAGAGAATTGGCTGGCCCTACTTCCAGG
 AGATCTTCATGTTATCAGCACTAAACAACAAGGATGTGAACACATTGAAGCAATACCTTCTGACACAGGC
 CCAGCCAGGACCTGGGAGTCCACAGTGGTGTGCTCACTAGCCAGACACCCGAAGATCTGTGCCAAT
 AAAATCAGAGAGAAGCTTTAGAGTACCTGCCTGAGGAGGTGCCCTACGGTGTGCAGCAGAAGACAGTGA
 TATGGGAGGAAGGACCAAGTGGAGAGCTAGTGATCCAACAGAACCTTCTGGTGCCCAAAGAATCTCATGT
 GAGGATCCTGATTGGTTCAGAAGGCCTCTCGATCTCCAGATTGCACAGGAGGTGGGCCGGACCTCATG
 GACATCTTCCACTGTGACGTTCTCATCCGCCTCTGTGAACTCCTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206974 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPRRYCAGLVRALLGARQVGSAGREWLAPPGCLLGNQARCVSCVVGSTFSGPLLASASSRYGQDSAL
 DRILGFSQPDSSLVPSVPAVSVHRDEQNLLL VHTPDMPENPRVLRVLLGAPNAGKSTLSNQLLGRKVFP
 VSKKVHTTRCQALGVITEKETQVILLDTPGIISPVKQKRHHLERSLLEDPWTSMESADLVVVLVDVSDKW
 TRSRLNPQVLQCLTKFSQVPSILVLNKVDCLKQKSVLLELTAALTEGVVNGKLNLIKQALRSRSTHCPG
 PETEGPNAHSVRNPQRIGWPYFQEIFMLSALNNKDVNTLKQYLLTQAQPGPWEFHSGVLTSTPEEICAN
 KIREKLLLEYLPEEVPGVQKTVIWEEGPSGELVIQQNLLVPKESHVRILIGQKGLSISQIAQEVGRDLM
 DIFHCDVLIIRLSVKLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC068271

ORF Size: 1311 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: [BC068271](#), [AAH68271](#)

RefSeq Size: 2109 bp

RefSeq ORF: 1313 bp

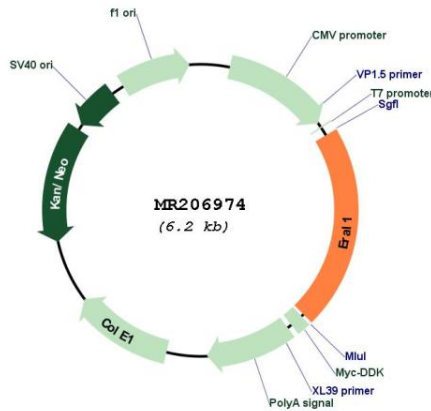
Locus ID: 57837

Cytogenetics: 11 B5

MW: 48.2 kDa

Gene Summary: Probable GTPase that plays a role in the mitochondrial ribosomal small subunit assembly. Specifically binds the 12S mitochondrial rRNA (12S mt-rRNA) to a 33 nucleotide section delineating the 3' terminal stem-loop region. May act as a chaperone that protects the 12S mt-rRNA on the 28S mitoribosomal subunit during ribosomal small subunit assembly (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206974