

Product datasheet for **MG206974**

Eral1 (BC068271) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eral1 (BC068271) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eral1
Synonyms:	MERA-S, MERA-W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206974 representing BC068271 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCCCAGGCGGTACTGCGCTGGGCTCGTTCGGGCCTTGTTAGGGGCCGACAGGTGGTTTCGC
ATGCAGGGAGGGAATGGCTTGCCTCGCCCGCTGTCTTCTAGGTAACCAGGCGAGGTGCGTGTCTGTGT
CGTGGGCTCCACTTTCTGGTCCCTCCTGGCCTCGGCTCTAGTCGTTATGGTCAGGACTCCGCCTTG
GACCGTATCCTTGATTCTCAGCCTGACAGTTCGTTGGTCCGAGCGTCCCGCGGTGTCGGTGCACA
GAGATGAGCAGAATCTACTTTGGTGCACACTCCGACATGCCTGAGAATCCACGGTCTCCGCGTGGT
CCTCCTGGGAGCCCAAATGCAGGGAAGTCAACACTTTCCAATCAGCTGCTGGGCCGTAAGTGTTCCT
GTTTCAAAGAAGGTGCACACCACTCGATGTCAAGCTCTGGGGTTCATCACAGAGAAGGAGACCCAAAGTGA
TTCTGCTTGACACACCTGGCATCATCAGTCTGTTAAACAGAAGAGGCACCATCTGGAGCGCTTTTGT
GGAAGATCCATGGACGAGCATGGAATCTGCTGATCTTGTGTAGTTCTTGTGGATGTGTCAGACAAGTGG
ACCAGGAGTCGGCTCAACCCCAAGTGCAGTGCTTGACCAAGTCTCTCAGGTCCCTAGCATCTCTCG
TCTTAAACAAGGTAGATTGCCTGAAGCAGAAGTCAAGTTCCTGGAGCTGACAGCAGCCCTCACTGAAGG
TGTTGTCAATGGCAAGAAGCTTAATATCAAGCAGGCCCTGCGCTCACGCTCCAGCACCCACTGCCCTGGC
CCTGAAACTGAGGGCCAAATGCACACTCAGTGAGGAACCTCAGAGAATTGGCTGGCCCTACTTCCAGG
AGATCTTCATGTTATCAGCACTAAACAACAAGGATGTGAACACATTGAAGCAATACCTTCTGACACAGGC
CCAGCCAGGACCTGGGAGTCCACAGTGGTGTGCTCACTAGCCAGACACCCGAAGAGATCTGTGCCAAT
AAAATCAGAGAGAAGCTCTTAGAGTACCTGCCTGAGGAGTGGCCCTACGGTGTGACAGCAGAAGACAGTGA
TATGGGAGGAAGGACCAAGTGGAGAGCTAGTGATCCAACAGAACCTTCTGGTGCCCAAAGAATCTCATGT
GAGGATCCTGATTGGTCAAGAGGCCCTCTCGATCTCCAGATTGCACAGGAGGTGGGCCGGGACCTCATG
GACATCTCCACTGTGACGTTCTCATCCGCTCTCTGTGAAACTCCTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206974 representing BC068271
 Red=Cloning site Green=Tags(s)

MAAPRRYCAGLVRALLGARQVGSAGREWLAPPGCLLGNQARCVSCVVGSTFSGPLLASASSRYGQDSAL
 DRILGFSQPDSSLVPSVPAVSVHRDEQNLLL VHTPDMPENPRVLRVLLGAPNAGKSTLSNQLLGRKVFP
 VSKKVHTTRCQALGVITEKETQVILLDTPGIISPVKQKRHHLERSLLEDPWTSMESADLVVVLVDVSDKW
 TRSRLNPQVLQCLTKFSQVPSILVLNKVDCLKQKSVLLELTAALTEGVVNGKKNLNIKQALRSRSTHCPG
 PETEGPNAHSVRNPQRIGWPFYQEIFMLSALNNKDVNTLKQYLLTQAQPGPWEFHSGVLTSTQTPEEICAN
 KIREKLLLEYLPEEVPGVQQKTVIWEEGPSGELVIQQNLLVPKESHVRIIGQKGLSISQIAQEVGRDLM
 DIFHCDVLIIRLSVKLLK

TRTRPLE – GFP Tag – V

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

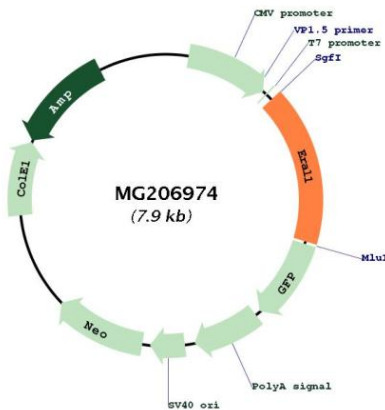
RefSeq ORF: 1313 bp

Locus ID: 57837

Cytogenetics: 11 B5

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 MG206974