

## Product datasheet for **MC217806**

### Eral1 (BC068271) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Eral1 (BC068271) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >BC068271  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGCCCCAGGCGGTACTGCGCTGGGCTCGTTCCGGCCTTGTAGGGGCCACAGGTGGGTTCCG  
 ATGCAGGGAGGAATGGCTTGTCCGCCGGCTGTCTTAGGTAACCAGGCGAGGTGCGTGCCTGTGT  
 CGTGGGCTCCACTTTCTCTGGTCCCCTCTGGCCTCGGCCTCTAGTCGTTATGGTCAGGACTCCGCCTG  
 GACCGTATCCTTGGATTTCTCAGCCTGACAGTTCGTTGGTCCGAGCGTCCCGCGGTGTCGGTGCACA  
 GAGATGAGCAGAATCTACTTTGGTGCACACTCCCGACATGCCTGAGAATCCACGGGTCTCCGCGTGGT  
 CCTCTGGGAGCCCCAAATGCAGGGAAGTCAACACTTTCCAATCAGTCTGGGCCGTAAGTGTTCCT  
 GTTCAAAGAAGGTGCACACCCTCGATGTCAAGCTCTGGGGTCATCACAGAGAAGGAGACCCAAGTGA  
 TTCTGCTTGACACACCTGGCATCATCAGTCTGTTAAACAGAAGAGGCACCATCTGGAGCGCTTTTGT  
 GGAAGATCCATGGACGAGCATGGAATCTGCTGATCTTGTGTAGTTCTTGTGGATGTGTCAGACAAGTGG  
 ACCAGGAGTCGGCTCAACCCCCAGGTGCTGCAGTCTTGACCAAGTTCTCTCAGGTCCTAGCATCCTCG  
 TCTTAAACAAGGTAGATTGCCTGAAGCAGAAGTCAGTTCTCTGGAGCTGACAGCAGCCCTCACTGAAGG  
 GTTGTCAATGGCAAGAAGCTTAATATCAAGCAGGCCCTTGCCTCACGCTCCAGCACCCACTGCCCTGGC  
 CCTGAACTGAGGGCCCAATGCACACTCAGTGAGGAACCCTCAGAGAATTGGCTGGCCCTACTTCCAGG  
 AGATCTTCATGTTATCAGCACTAAACAACAAGGATGTGAACACATTGAAGCAATACCTTCTGACACAGGC  
 CCAGCCAGGACCTGGGAGTCCACAGTGGTGTGCTCACTAGCCAGACACCCGAAGATCTGTGCCAAT  
 AAAATCAGAGAGAAGCTTTAGAGTACCTGCCTGAGGAGGTGCCCTACGGTGTGCAGCAGAAGACAGTGA  
 TATGGGGAAGGACCAAGTGGAGAGTAGTGATCCAACAGAACCTTCTGGTGCCCAAGAATCTCATGT  
 GAGGATCCTGATTGGTCAAGAGGCCCTCTCGATCTCCAGATTGCACAGGAGGTGGGCCGGACCTCATG  
 GACATCTTCCACTGTGACGTTCTCATCCGCCTCTGTGAACTCCTCAAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** BC068271
- Insert Size:** 1314 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:**
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.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">BC068271</a> , <a href="#">AAH68271</a>
<b>RefSeq Size:</b>	2109 bp
<b>RefSeq ORF:</b>	1313 bp
<b>Locus ID:</b>	57837
<b>Cytogenetics:</b>	11 B5
<b>Gene Summary:</b>	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]