

Product datasheet for **RN205920**

Eral1 (NM_001013229) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eral1 (NM_001013229) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Eral1
Synonyms:	MGC109051
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN205920 representing NM_001013229
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCCCCAGGCGGTACTTCCTGGGATAGTTCGGCCTTGTGGGGCTTGGCAGGTGGGTTCCG
 ATGCAGGGAGGGAGTGGGTTTACCACCCGGCAGTCTTCTAGGTAACCATGTGAGGTGCGTGCCTGTGT
 CGTGGGCGCCACTTTCTCTGGTCCCCTCCTGGCCTCGGCTTCTAGTCGTTATGGTCAAGACTCCGCCTTG
 GACCGTATCCTTGGATTCCCTCAGCCTGACAGTCTTTGGTTCGTCGTCGCCCGCGGTGTCCGTGCACA
 GAGATGAGCAGAATCTACTTTGGTCCATACTCCTGACATGCCTGAGAATCCCGGGTCTCCGAGTGGT
 CCTCCTGGGAGCTCCAAATGCAGGGAAGTCAACTTTTCCAATCAGCTGCTGGGCCGTAAGTGTTCCT
 GTCTCAAAGAAGGTGCACACCACTCGATGTCAAGCTCTGGGGTTCATCACAGAGAAGGAGACCCAGGTGA
 TTCTGCTTGACACACCTGGCATCATCAGTCTGTTAAACAGAAGAGGCACCATCTGGAGCTCTTTGCT
 GGAAGATCCGTGGAAGAGCATGGAATCTGCTGATCTTGTGTAGTCTTTGGATGTGTCAGACAAGTGG
 ACCAGGAGCCGGCTAAGCCCCAGGTGCTGCAGTCTTGACCAAGTTCTCCAGGTCCTAGCATCCTTG
 TCTTAAACAAGGTAGATTGTCTGAAGCAGAAGTCAAGTCTCCTGGAGCTGACTGCAGCCCTCACTGAAGG
 TGTGTAATGGCAAGATGCTTAATGTCAGGCAGGCCTTTCGCTCACGCCCCAGCACCCACTGCCCTGGC
 CCTGAACTGAGGACCCAAACACACACGAGTGAAGGCCCCAGAGAAGTGGCTGGCCCTACTTCCAGG
 AGATCTTCATGTTATCAGCACTAAACAACAAGGATGTGAACACTGAAGGCCAGCCGGGACCCCTGGGA
 GTTCCACAGTGGAGTTCTCACTAGCCAGACCCGAAGAGATCTGTGCCAATAAAATCAGAGAGAAGCTC
 CTAGAGTACCTGCCCGAGGAGTGCCTACAGTGTACAGCAGAAGACAGTATCTGGGAGGAAGGACCGA
 GTGGGGAGCTAGTATCCAACAGAACCTTCTGGTGCCCAAGAGTCTCATGTGCGGATCCTGATTGGTCA
 GAAGGGCCTCTTGATCTCCAGATTGCACAGGAGGTGAGCCAAGACCTCATGGACATCTTCTTTGTGAT
 GTTCTCCTCCGCTGTCTGTGAACTCCTCAAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001013229
- Insert Size:** 1296 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.
- RefSeq:** [NM_001013229.1](#), [NP_001013247.1](#)

RefSeq Size: 2059 bp

RefSeq ORF: 1296 bp

Locus ID: 363646

UniProt ID: [Q5EBA0](#)

Cytogenetics: 10q25

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]