

## Product datasheet for **MC205962**

### Riox2 (NM\_025910) Mouse Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                   |
| Product Name:             | Riox2 (NM_025910) Mouse Untagged Clone                |
| Tag:                      | Tag Free  |
| Symbol:                   | Riox2   |
| Synonyms:                 | 1810047J07Rik; 2410057H13Rik; 3830408E23Rik; AI449204 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)                               |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                  |



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**Fully Sequenced ORF:** >BC058242  
 CGCAACAGGCCGTGCCGGTGCAGCGCGTGGGACCGGGTCAGGCTGAGAAGTGCAGCTCTGGAGGGCTGG  
 GGCCCTAACTGGTTTGCATTTCTCCCTACTCGTGAACAATGCCAAAGAAAGTGCAGCCCACAGGGGATGA  
 GAACGAAGAAGCGTCTGTTCTTCAAGCGGGTGAAGGAGGAGCTGCCTGAAACGCTTTCTGTATTAAC  
 TTTGACAGCCCCAGTAGTTTCTCGAAAGTTTAACTCACCCATCAAAGTAGAGACTTTTTCAAGGAAT  
 TCTGGGAACAAAAGCCCCCTTCTCATCCAGAGGGATGACCCTGTACTGGCCAAATATTACCAGTCTCTGTT  
 CAGCCTCTCAGATCTGAAGAGACTCTGCAAGAAAGGAGTGTACTATGGAAGAGACGTGAATGTCTGCCGG  
 AGCATCAGTGGGAAGAAGAAGGTTTTAAATAAGGACGGCAGAGCACATTTCTTCAGCTGAGAAAAGATT  
 TTGATCAGAAGAGGGCAACAATTCAATTTACCAACCTCAGAGATATAAGGATGAGCTGTGGCGGATCCA  
 GAAAAGCTGGAATGTTACTTTGGGTCCTTAGTAGGCTCGAATGTGTACATGACTCCTGCAGGATCTCAG  
 GGCCCTCCCTCCACATTATGATGATGTTGAGGTTTTATCCTGCAGCTGGAGGGAACGAAACTGGCGCC  
 TGTACTCCCCAACTGTGCCCTGGCACACGAGTACAGTGTGAATCTGAGGACCGGATCGGCACACCGAC  
 ACAGACTTCTGCTGAAGCCTGGAGATTTGTTGACTTTCCAGAGGGACCATTATCAGGCAGAACT  
 CCTTCAGGCTGGCCTACTCTATTACCTGACTATTAGCACCTACCAGAACAATTATGGGGAGACTGCC  
 TTTTGGATTCCATTTCCGGGTTCTGATTTGACATTGCAAAGGAAGATGTGGCATTAAAGGAGTGAATGCC  
 CCGCGGATGCTCCTGAATGTGGAAACCCAGCTGATGTAACAAGGAAGTTGAGTGGCTTTCTGAGGACT  
 CTTGCAGACCAGCTCGAGGGCAGAGAAGAGCTGCTGTCATCAGATATGAAGAAGGACTTCGTCAGCACA  
 GACTCCCTCCTTCTCGAGGGAATGGAACGGAGACGATGGACCCAGGTAACAGTTGCCAAGGTTGGA  
 CAACATAAAGACTGCAGTTCAAAGATCATTGTCCTCACAGTAGGGCCAGATAAGAATCCATTTGAT  
 GAAGCTCAACAAAAGGTGGTTTACATCTATCATTCTGGAAGAATGTGAGGCAGATGCACATGATAGGAG  
 AAGAGGAGGAATCCGAGATTTTCGGTCTTCGCTTTCCTTATCACATGTGGATGCTCTGAAGCAAATCTG  
 GTGCGGGTCAACAATTCGTGTTAAGGACCTGAACTTGACACAGATGAAGAAAAGGAGAACCTGGCACTG  
 TCTCTGCTCGGAGTCTTAAATCCAAGTACTAGTGCCTTTATGCAGAGAATTGTTGATTTCTCTAT  
 ACATACATTCAGTGAAGCGGGAGGGGCTTGGCGCTCTGGTTAGTACTGTGGGTGGAGGTGTAGTACCT  
 AGAGGAGCAAGGAGAAGAAGCTGGTTCATGTCCTTGTGGACACGAGAGGAAAACAGGAAATTTATAGGC  
 ATCCCAGACTCTGATAAAACGATACTTCGGACAAGTTTATTCAATGCAGTGTGTAGAAAAGGCACAAC  
 GCAGTACACATGTCATAAAGATTATGTCAGTAACCTGGCTCGTCTTGCTTCTTTGGAAGAAATAACTCCT  
 TTAAGAGCATCACTGGCTCCGAAAATACTTTCTAACAATTAACCTTAGGAATAAAGTTGGATTTTTTT  
 CTTTACAATGAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_025910

**Insert Size:** 1398 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: [BC058242](#), [AAH58242](#)

RefSeq Size: 1950 bp

RefSeq ORF: 1398 bp

Locus ID: 67014

UniProt ID: [Q8CD15](#)

Cytogenetics: 16 C1.3

**Gene Summary:** Oxygenase that can act as both a histone lysine demethylase and a ribosomal histidine hydroxylase. Is involved in the demethylation of trimethylated 'Lys-9' on histone H3 (H3K9me3), leading to an increase in ribosomal RNA expression. Also catalyzes the hydroxylation of 60S ribosomal protein L27a on 'His-39' (By similarity). May play an important role in cell growth and survival. May be involved in ribosome biogenesis, most likely during the assembly process of pre-ribosomal particles.[UniProtKB/Swiss-Prot Function]