

## Product datasheet for **MC216227**

### **Ero1lb (NM\_026184) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ero1lb (NM_026184) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ero1lb
Synonyms:	1300013B24Rik; 1700065B09Rik; AI447560; ero1-beta; Ero1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216227 representing NM\_026184  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTCCGGGGTTCCGCGGGCCGTTACTGGGCAGGGGGCGCGCCGGTGC AACTGCTTGTCAACC  
 TGAGTTCTCTCAAGTCTGGTCAAGACTCAGGTGACTGGAGTTCTGGATGATTGCTTATGTGACATTGA  
 CAGCATTGATAAAATCAACACCTACAAAATCTTCCAAAATAAAGAAGTTACAAGAACGAGACTATTTT  
 CGTTATTACAAGGTTAATCTGAAACGACCATGCTTTCTGGGCAGAAGATGGCCACTGCTCAATAAAAAG  
 ACTGTCATGTGGAGCCCTGTCCAGAAAGTAAAATCCAGTTGGAATTAAGCCGGGCGTTCAAATAAGTA  
 CTCGCAAGCAGCAAACAGCACCAAGAAGTGGATGACTGTGAGCAGGCTAACAACTGGGCGCCATCAAC  
 AGCACGCTAAGTAACGAAAGCAAAGAAGCGTTCATTGACTGGGCGAGATATGATGATTGCGAGGACCACT  
 TTTGTGAACCTTGATGATGAGCGTCTCCTGCTGCACAGTATGTGGACCTGCTGTAACCCGGAACGGTA  
 CACTGGCTACAAGGGCTCCTCAGCATGGAGGGTGTGGAACAGCATCTATGAAGAAAAGTCTTCAAGCCT  
 CGATCTGTTTATCGTCTTTAAATCCTTTGGCGCCAGCAGAGGGGAAGATGATGGAGAATCATTCTATA  
 CGTGGCTAGAAGGTTTGTGCTTGTGAGAAAAGAGTCTTCTATAAGCTTATATCAGGACTCCATGCCAGCAT  
 CAATTTACATCTGTGTGCAAACTACCTTCTGGAAGAACTGGGGGAAACCTAGTTGGGGACCAAACATC  
 AAGGAGTTTAGACGCCGCTTTGACCCTGTGAAACAAAGGGGAAAGTCCAAGGAGGCTAAAGAACCTGT  
 ACTTTTATACTTGATAGAGCTCCGTGCTTTGTCAAAGGTGGCCCTTACTTTGAGCGCTCGATTGTTGA  
 TCTCTATACTGGCAATGTGGAAGATGATGCCGACACCAAGACCCTTCTGCTCAGCATCTTTCAGGATACA  
 AAGTCTTTCCATGCACTTCGATGAGAAATCCATGTTTGCAGGTGACAAAAAGGGGCAAGTCATTAA  
 AGGAAGAATCCGGTTACATTTCAAGAACATCTCCCGATCATGGACTGTGTTGGTGCGATAAAATGAG  
 ACTGTGGGGGAAACTGCAGACTCAGGGTTTAGGAACTGCCTTGAAGATCCTCTTCTGAAAAGGAAATC  
 CAAAACCTTCCGGAAGCAGCCATCCAAGGCTTCCAGCTCACTCGGCAGGAAATCGTTGCTCTTTTAA  
 ATGCTTTTGAAGACTTTCTACAAGCATAAGAGAATTACAGAAGTAAAGCGTTGTTGCAGCACAGGAG  
 GTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/jb1118\\_a06.zip](https://cdn.origene.com/chromatograms/jb1118_a06.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_026184

**Insert Size:** 3 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:** [BC058721](#), [AAH58721](#)

**RefSeq Size:** 4255 bp

**RefSeq ORF:** 1404 bp

**Locus ID:** 67475

**UniProt ID:** [Q8R2E9](#)

**Cytogenetics:** 13 A1

**Gene Summary:** Oxidoreductase involved in disulfide bond formation in the endoplasmic reticulum. Efficiently reoxidizes P4HB/PDI, the enzyme catalyzing protein disulfide formation, in order to allow P4HB to sustain additional rounds of disulfide formation. Other protein disulfide isomerase family members can also be reoxidized, but at lower rates compared to P4HB, including PDIA2, PDIA3, PDIA4, PDIA6 and NXNDC12. Following P4HB reoxidation, passes its electrons to molecular oxygen via FAD, leading to the production of reactive oxygen species (ROS) in the cell (By similarity). Involved in oxidative proinsulin folding in pancreatic cells, hence required for glucose homeostasis in vivo.[UniProtKB/Swiss-Prot Function]