

## Product datasheet for **MC222876**

### Ireb2 (NM\_022655) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ireb2 (NM_022655) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ireb2
Synonyms:	D9Ertd85e; Irp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC222876 representing NM\_022655  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTCCCAAGTGCAGGATACACCTTTGAGTACCTTATTGAAACATTAATGGCAATTCACAGAAGA  
 AGTTCTTCAATGTACCTAACTTGGCGGCACCAAGTATGATATTCTGCCTTACTCAATACGGGTCCTATT  
 GGAAGCTGCTGTACGAAATTGTGATGGCTTTTTAATGAAAAAGGAAGATGTTATGAACATTTTGGACTGG  
 AAAACCAAACAGAGCAATGTTGAAGTGCCTTTTTCCCTGCCCGTGTGTTCTTCAAGATTTCACTGGAA  
 TACCGCAATGGTGGATTTTGTGCTATGAGGGAGGCAGTAAAACTCTTGGAGGTGATCCTAAGAAAGT  
 CCACCCTGCCTGCGACAGATCTCACAGTGGACCACTTTACAGATTGACTTCAGTAAATGTGAATA  
 CAGAAATGCACAAATCCTGGAGGTGGTACCTACAGAAAGCAGGAAAGCTCTCTCCACTTAAAGTGCAGT  
 CTAAGAAGCTTCCATGTCGAGGCCAGACTACCTGCCGGGATCGTGTATTCTGGAGAGCTAAGCCGGAA  
 CTCAGGAACATTTTCTTACAGATTGAGAATACACCTGTCTTGTGTCCTTTTCATTTGCAACCAGTGCCT  
 GAACCTGAGACAGTGTAAAAAATCAAGAAGTAGAATTTGGCAGAAATCGAGAGAGGCTTCAGTTTTTCA  
 AGTGGAGCTCAGGAGCTTTAAGAATGTGGCAGTCATCCCGCTGGAACCTGGAATGGCTCATCAAGTGAA  
 CTTAGAATATTTTCAAGAGTAGTTTTTGAAGAACCGACCTGCTCTCCAGACAGTGTAGTTGGCACA  
 GATTCTCATATAACCATGGTGAACGGATTGGGGATTCTTGGTGGGGAGTTGGTGGCATTGAGACAGAGG  
 CAGTTATGCTTGGCCTGCCAGTACTCTTACTTTACCAGAGGTGGTTGGATGTGAGCTAACTGGGTCATC  
 CAATGCTTTTGTACATCCATAGATATTGTCCTTGGCATTACAAAGCACCTCAGGCAAGTAGGCGTGGCT  
 GGAAAGTTTGTGAGTTCTTGGAAAGTGGAGTTTCAACAATATCTATTGTCGATAGAATACCATAGCAA  
 ACATGTGTCCAGAATATGGTGCATCCTCAGCTTTTTCCCTGTTGACAATGTGACACTACGACATTTAGA  
 ACATACAGGTTTTGACAAAACCAAACTTGAGTCAATGGAAAAATACCTTAAAGCTGTGAAATTTGTTTGA  
 AATGATGAGAATTTCTTCAAGAACCTGAATATTCTCAGGTGATACAGATTAATCTGAATTCATAGTTGCAT  
 CTGTGAGTGGTCCAAAAAGGCTCAGGATAGGGTGTGCTAACAGATATGAAAAGTATTTTTCAGGCTTG  
 CTTAAATGAAAAGGTTGGATTTAAAGGCTTCCAAGTTCAGCAGAAAAACAAAGTACACTGTCTCTGTT  
 CGTTATGATGGAAGTGTATAAGCTGTCCATGGATCCGTGGTTCATTGCTGCAGTTATCAGTTGTACCA  
 ATAATTGCAATCCATCTGTGATGCTTGTGTCAGGCTTCTGGCTAAAAAGGCTGTGAAATTTGGTCTACG  
 AGTTAAACCTTATACGAACAAGTTTGTCTCCAGGCAGTGGGATGGTTACACATTACCTCAGTTCAAGT  
 GGAGTGTACCTATCTTAGCAAGCTAGGTTTGCATAGTTGGCTATGGATGTTCAACATGTGTAGGAA  
 ATACAGCACCTTTATCAGAAGCAGTTTTGAATGCAGTAAAACAGGCTGATTTGGTTACCTGTGGAGTTTT  
 ATCTGGAACAAACATTTTCAAGGCCGTCTCTGTGATTGTGTCGGTCCCAATTATCTCGCCTCTCCGCC  
 TTAGTGGTGGCTTATGCCATAGCAGGCACAGTGAATATAGACTTCCAGACAGAGCCTTTAGTACTGACT  
 CTACGGGCAAGGAAATTTACCTGCATGACATTTGGCCTAGTCGAGAAGAAGTTTATCAGATGGAGGAAGA  
 ACATGTTATATTGTCAATGTTTAAACACTAAAAGAGAAAAGTAGAGATGGGAAATAAACGGTGGAAATTCG  
 TTAGAAGCTCCAGACTCCGTGCTGTTCCATGGGATGTGAAGTCTACTTACATCAGATGCCCTTCATTTT  
 TTGATAAGCTTACCAAAGAGCCAGCTGCATCCCAGCCTATTGAGAATGCCATGTCCTGTGTTATTTGGG  
 AGACTCTGTCACTACAGATCATATACCCCGCTGGAAGTATTGCTAGGAGTAGTCTGCTCAAGTAT  
 TTGACAAAACAGAGCCTTACTCCCAGAGTTCAACTCTTATGGAGCTCGAAGAGGTAATGATGCTGTGA  
 TGACAAGAGGCACATTTGCAACATCAAGCTTTTTAATAAGTTTATTGGGAAGCCAGCTCCCAAAACAAT  
 TCATTTTCCATCGGGACAAACGCTCGATGATTTTGAAGCTGCAGAACTGTACCAGAAAGAAGGTATCCCA  
 CTGATAATTTTAGCAGGAAAAAATATGGTTCAGGAAATCAAGAGATTGGGCTGCCAAGGGACCTATT  
 TGCTGGGTGTAAGGCTGTTTTGGCTGAGAGCTATGAAAAATACACAAAGATCATTGATTGGAATTGG  
 TATAGCACCCTTGAATTCCTCCAGGAGAAAATGCAGATTCCTTGGCCTCTCTGGCAGAGAAGTATTT  
 TCTTTATCATTTCTGAAGAATCTTTCTGGAATTACATTAATAAAGACAAGCACTGGAAAAGAGT  
 TCAGCGTATTGCATCATTGCAATGACGTGGAGATAACTTTGTACAAACATGGAGGCTTATTAACCT  
 TGTGGCTCGAAAATTTCTA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_022655
<b>Insert Size:</b>	2892 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022655.3</a> , <a href="#">NP_073146.2</a>
<b>RefSeq Size:</b>	5808 bp
<b>RefSeq ORF:</b>	2892 bp
<b>Locus ID:</b>	64602
<b>UniProt ID:</b>	<a href="#">Q811J3</a>
<b>Cytogenetics:</b>	9 29.81 cM
<b>Gene Summary:</b>	RNA-binding protein that binds to iron-responsive elements (IRES), which are stem-loop structures found in the 5'-UTR of ferritin, and delta aminolevulinic acid synthase mRNAs, and in the 3' UTR of transferrin receptor mRNA. Binding to the IRE element in ferritin results in the repression of its mRNA translation. Binding of the protein to the transferrin receptor mRNA inhibits the degradation of this otherwise rapidly degraded mRNA.[UniProtKB/Swiss-Prot Function]