

## Product datasheet for MC204139

### Erlin2 (NM\_153592) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Erlin2 (NM\_153592) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Erlin2  
**Synonyms:** BC036333; C87251; Spfh2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC038374  
 GTTGCACGGGGTTCGGCTGTGTACGGAGCGCCTGGAGGGACAGCCTGGATACAGGTTCACTGATGGCTC  
 AGTTGGGAGCTGTTGTGGCCGTGGCTTCCAGTTTCTTTTGTGCATCTCTTCTCAGCTGTGCACAAGT  
 AGAAGAGGGACATATTGGAGTATATTACAGAGGTGGTGCCTGCTGACCTCCACCAGTGGCCCGGTTTC  
 CATCTCATGCTCCCGTTCATCACATCTATAAGTCTGTACAGACCACTCTCCAACTGATGAAGTGAAGA  
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 CCCAAATGCAGTGTATGATATAGTGAAGAACTATACTGCAGACTATGACAAGGCCCTCATCTTCAACAAG  
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 AAATTGATGAAAACCTCAAGTTGGCTTTGCAGCAGGACCTGACTCCATGGCCCTGGGCTGGTTATCCA  
 AGCTGTGCGAGTGACAAAGCCCAATATACCTGAGGCAATCCGCAGGAAGTATGAGCTGATGAAAAGCGAG  
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 AGGCCCTCATTGAGGCAGAAAAAGTGGCACAGGTTGCAGAAATCACCTATGGGCAAAAGGTGATGGAGAA  
 GGAGACAGAGAAGAAGATCTCAGAAATTGAAGATGCTGCGTTCCTGGCCCGGAGAAAGGCGAAGGCCGAC  
 GCTGAGTGCTACACAGCGCTGAAGATCGCAGAAGCAAATAAGCTCAAGCTGACTCCAGAATACCTGCAGC  
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 TAGTGTGTTGGCTACATCTCACCAGCAGGGCTTGGTACACCACACTCCTTTCCGTACTTTGA  
 CCTGATCTGTGATTTCTTCTTGAATAATCTATTATGAGTTGCACTCAGCGTTAAGATGGGAACA



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AACAAAGTCTGTTAGCTGATGACGTAGCTCCTTATACCCCTTAGCACTGTGGTGCTGTGGCTAATTAT
GCGTATGCTTTTGGAGACCAACATCTTTATCATTATGGAGATTCTTCATTGAAGAGCCCTAACACTGTG
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TGTTTCAGACAACAAAAAAGGTCTCAATGTGAATATACTTACATTTTGGATTTAATTCAGTCTTGCTA
AATAAAATGTTTTGTCTTTTTTAAAAA
    
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- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_153592
- Insert Size:** 1023 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: [BC038374](#), [AAH38374](#)

RefSeq Size: 3892 bp

RefSeq ORF: 1023 bp

Locus ID: 244373

UniProt ID: [Q8BFZ9](#)

Cytogenetics: 8 A2

**Gene Summary:** Component of the ERLIN1/ERLIN2 complex which mediates the endoplasmic reticulum-associated degradation (ERAD) of inositol 1,4,5-trisphosphate receptors (IP3Rs) such as ITPR1. Promotes sterol-accelerated ERAD of HMGCR probably implicating an AMFR/gp78-containing ubiquitin ligase complex. Involved in regulation of cellular cholesterol homeostasis by regulation the SREBP signaling pathway. May promote ER retention of the SCAP-SREBF complex (By similarity).[UniProtKB/Swiss-Prot Function]