

## Product datasheet for **MC218657**

### **Ehd2 (BC027084) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ehd2 (BC027084) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ehd2
Synonyms:	MGC25606, MGC38650
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC027084  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATGGCGAGACAGAGGGCACCGTGCCCGAAATGCTCTCGTTGTGGACCCAGAGAAGCCCTTCCGCA  
 AACTCAACCCTTTTGGAAACACTTTTCTCAACAGGTTTATGTGCGCCCAACTCCCAACCAGGTCCTGGA  
 GAGCATCAGCATCATCGACACGCCTGGCATCCTATCAGGTGCAAAACAGAGAGTGAGCCGTGGCTACGAC  
 TTCCAGCTGTCTGCGCTGGTTTGTGAACGCGTGGACCTCATCATCTTGCTCTTTGATGCCACAAGC  
 TGGAGATTTCCGATGAATTCTCGGAGGCCATCGGTGCCTTGCCTGGCCACGAGGATAAGTCCGCGTGGT  
 ACTCAACAAGGCAGACATGGTGGAGACACAGCAGCTGATGCGCGTCTACGGGGCGCTCATGTGGCGCTG  
 GGCAAGGTGGTGGCAGCCTGAGGTCCTTCGCGTCTACATTGGCTCCTTCTGGTCCCAGCCGCTCCTTG  
 TGCCGGACAACCGCGCTTTTTCGAGCTGGAGGAACAGGACCTTCCGTGATATCCAAGCCCTACCGCG  
 CCATGCGGCGCTGCGCAAGCTCAACGACCTAGTAAAACGGGCGCGCTGGTGCGGGTACACGCTTACATC  
 ATCAGCTACCTGAAGAAAGAGATGCCACGGTGTTCGGGAAGGAAAACAAGAAGAAGCAGCTGATCCTGA  
 AGCTGCCTGTCTCTTTGCGAAGATCCAGCTGGAGCACCACATCTCCCCTGGAGACTTTCCTGACTGCCA  
 GAAGATGCAGGAGCTGTTGATGGCACATGACTTACCAAGTTCCACTCGTAAAGCCGAAGCTGCTGGAG  
 GCGCTAGATGACATGCTGGCCCAAGACATTGCCAAGCTTATGCCGCTGCTTCGGCAGGAGGAGCTGGAGA  
 GTGTCGAGGCTGGAGTGCAGGGCGGTGCGTTTGTAGGGCACCCGCATGGGCCCTTCGTGGAGCGGGGCC  
 TGATGAAGCAATAGAGGATGGTGAAGGGGCTCAGAAGATGATGCCGAATGGGTGGTGACCAAGGACAAG  
 TCCAAATACGATGAAATCTTCTACAACCTAGCTCCTGCTGATGGCAAGCTGAGTGGCTTAAGGCCAAAA  
 CCTGGATGGTGGCACAAGCTACCAACTCTGTGCTGGGAGAAATCTGGAAGCTGAGCGATGTCGACCG  
 AGACGGCATGCTGGATGATGAGGAGTTTGCCTTGGCCAGCCACCTCATTGAGGCTAAGCTCGAAGGCCAT  
 GGTCTACCCACCAACCTACCCCGCCGCTGGTGGCGCTTCTAAGCGACGACAGAAGGGCTCTGCTGAAT  
 GA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATA  
 TCCTGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** BC027084

**Insert Size:** 1332 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: [BC027084](#), [AAH27084](#)

RefSeq Size: 2717 bp

RefSeq ORF: 1331 bp

Locus ID: 259300

Cytogenetics: 7 8.65 cM

**Gene Summary:** ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis (PubMed:24508342). Plays a role in membrane trafficking between the plasma membrane and endosomes. Important for the internalization of GLUT4 (PubMed:14676205). Required for fusion of myoblasts to skeletal muscle myotubes. Required for normal translocation of FER1L5 to the plasma membrane (PubMed:18502764, PubMed:21177873). Regulates the equilibrium between cell surface-associated and cell surface-dissociated caveolae by constraining caveolae at the cell membrane (By similarity). [UniProtKB/Swiss-Prot Function]