

## Product datasheet for **MC218658**

### **Ehd2 (NM\_153068) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ehd2 (NM_153068) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ehd2
Synonyms:	BC027084; C130052H20Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218658 representing NM\_153068  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTCACTGGCTGAAGAAGGGCGGGCCCGGGCCAGCGACCTGAGGCCATCCGCACCGTGACCTCAT  
 CCCTCAAGGAGCTGTATCGCACGAACTTCTCCCTGGAGGAACACTACCGTTTTGGGTCTTCCATTC  
 ACCGGCCCTTGAAGATGCTGACTTCGACGGCAAACCCATGGTGCTGGTGCCGGCCAGTATAGCACCGGC  
 AAAACCAGCTTACCCAGTACCTTCTGGAGCAGGAAGTCCCTGGCTCCCGCGTGGGTCCCGAGCCACCA  
 CCGACTGCTTCGTGGCTGTATGCATGGCGAGACAGAGGGCACCGTGCCCGAAATGCTCTCGTTGTGGA  
 CCCAGAGAAGCCCTTCGCAAACTCAACCTTTTGGAAACACTTTTCTCAACAGGTTTATGTGCGCCAA  
 CTCCCCAACAGGTCTGGAGAGCATCAGCATCATCGACACGCTGGCATCTATCAGGTGCAAAACAGA  
 GAGTGAGCCGTGGCTACGACTTCCAGCTGTCTGCGTGGTTTGTGAACGCGTGGACCTCATCATCTT  
 GCTCTTTGATGCCACAAGCTGGAGATTTCCGATGAATCTCGGAGGCCATCGGTGCCTTGCCTGCCCAC  
 GAGGATAAGATCCGCGTGGTACTCAACAAGGCAGACATGGTGGAGACACAGCAGCTGATGCGCGTCTACG  
 GGGCGCTCATGTGGCGCTGGGCAAGGTGGTGGGCACGCTGAGGTCCTTCGCGTCTACATTGGCTCCTT  
 CTGGTCCCAGCCGCTCCTTGTGCCGACAACCGCGCTCTTTTCGAGCTGGAGAACAGGACCTCTTCCGT  
 GATATCCAAGGCCTACCGCGCATGCGGCGCTGCGCAAGCTCAACGACCTAGTGAAACGGGCGCGGCTGG  
 TGCGGGTACACGCTTACATCATCAGCTACCTGAAGAAAGAGATGCCACGGTGTTCGGGAAGGAAAACAA  
 GAAGAAGCAGCTGATCCTGAAGTGCCTGTCTCTTTGCGAAGATCCAGCTGGAGCACCACATCTCCCCT  
 GGAGACTTTCCTGACTGCCAGAAGATGCAGGAGCTGTTGATGGACATGACTTACCAAGTTCACCTCGC  
 TAAAGCCGAAGCTGCTGGAGGCGCTAGATGACATGCTGGCCCAAGACATTGCCAAGCTTATGCCGCTGCT  
 TCGGCAGGAGGAGCTGGAGAGTGTGAGGCTGGAGTGCAGGGCGGTGCGTTTGGGGCACCCGCGATGGGC  
 CCCTTCGTGGAGCGGGCCCTGATGAAGCAATAGAGGATGGTGAAGAGGCTCAGAAGATGATGCCGAAT  
 GGGTGGTGACCAAGGACAAGTCCAAATACGATGAAATCTTCTACAACCTAGCTCCTGCTGATGGCAAGCT  
 GAGTGGCTCTAAGGCCAAAACCTGGATGGTGGGCACAAAGCTACCCAACCTCTGTGCTGGGAGAACTG  
 AAGCTGAGCGATGTCGACCGAGACGGCATGCTGGATGATGAGGAGTTTGCCTTGGCCAGCCACCTATTG  
 AGGCTAAGCTCGAAGGCCATGGTCTACCCACCAACCTACCCCGCCGCTGGTCCGCTTCTAAGCGACG  
 ACAGAAGGGCTCTGCTGAATGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_153068

**Insert Size:** 1632 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:** [NM\\_153068.3](#), [NP\\_694708.2](#)

**RefSeq Size:** 3058 bp

**RefSeq ORF:** 1632 bp

**Locus ID:** 259300

**UniProt ID:** [Q8BH64](#)

**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]