

Product datasheet for **RN212003**

Ehd2 (NM_001024897) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ehd2 (NM_001024897) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ehd2
Synonyms:	MGEPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN212003 representing NM_001024897
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTTCAGCTGGCTGAAGAAGGGTGGGGCTCGGGCCAGCGATCTGAGGCCATCCGACCCGTGACCTCGT
 CTCTCAAGGAGCTGTATCGCACAAAGCTTCTGCCCTGGAGGAACACTACCGTTTCGGGTCTTCCATTC
 ACCAGCCCTCGAAGATGCTGACTTCGATGGTAAACCCATGGTGGTGGCTGGCCAGTATAGCACCGGC
 AAAACCAGCTTCAACAGTACCTCTGGAGCAGGAGTCCCTGGCTCCCGCTGGGTCTGAGCCACCA
 CCGACTGCTTCGTGGCTGTATGCACGGCAGACAGAGGGTACCGTGCCTGAAAATGCTCTCGTTGTGGA
 CCCAGAGAAGCCCTTCGCCAACTCAACCTTTTGAAAACACTTCTCAACAGGTTTATGTGTGCCAA
 CTCCCAACCAGGTCCTGGAGAGCATCAGCATCATCGACACGCCCGCATCTATCAGGTGCCAAGCAGA
 GAGTGAGCCGGGCTACGACTTCCAGCTGTCTTGCCTGGTTTGGCTGAGCGCTGGACCTCATCATCTT
 GCTCTTTGACGCCACAAGCTGGAGATTTCTGATGAATCTCAGAGGCCATTGGTGCCTTGGTGGCCAC
 GAGGACAAGATCCGCGTGGTACTCAACAAGGCAGACATGGTGGAGACACAGCAGCTGATGCGCGTCTATG
 GGGCGCTCATGTGGGCGCTGGGCAAGTGGTGGGCACGCCTGAAGTCCTTCGTGTCTACATCGGCTCCTT
 CTGGTCCCAGCCGCTCCTTGTGCCAGACAACCGCGTCTCTTCGAGCTGGAGGAACAGGACCTTCCCGT
 GATATCCAAGGCCTACCGCGCCACGCGCGCTGCGGAAGCTCAATGACCTAGTGAAGCGGGCGCGCTGG
 TGCGGGTGCACGCTTACATCATCAGCTACCTGAAGAAGGAGATGCCCTCGGTGTTTCGAAAAGGAAAAA
 AAAGAAGCAGCTGATCTCAAGTGCCTGTCATCTTCGCCAAGATCCAGCTAGAGCACCACATCTCCCA
 GGAGACTTCCCTGACTGCCAGAAGATGCAGGAGCTGCTGATGGCAGTACTTACCAAGTCCACTCCC
 TAAAGCCGAAGCTGCTGGAGGCGCTGGACGAGATGCTGACCCACGACATTGCCAAGCTTATGCCGCTGCT
 TCGGCAGGAGGAGCTGGAGAGTGTGAGGCTGGCGTGCAGGGTGGTGCCTTTGAGGGCACCCGCATGGGC
 CCCTTCGTGGAGCGGGCCCTGACGAAGCAATAGAAGATGGCGAGGAGGCTCAGAAGATGATGCCGAAT
 GGGTGGTGACCAAGGACAAGTCCAAATACGATGAAATCTTCTACAATTTAGCGCCTGCTGATGGCAAGCT
 GAGTGGCTCTAAGGCCAAAACCTGGATGGTGGCACCAAGCTACCCAACCTCCGTGCTGGGGCGAATCTGG
 AAGCTGAGCGATGTGACCGAGATGGCATGCTGGATGATGAGGAGTTCGCCCTGGCCAGCCACCTCATTG
 AGGCTAAGCTCGAAGGCCATGGGCTACCCACCAACCTACCCCGCCGCTGGTGGCACCTTCTAAGCGACG
 ACAGAAGGGCTCTGCTGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2689_a04.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_001024897

Insert Size: 1632 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

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_001024897.1](#), [NP_001020068.1](#)

RefSeq Size: 2057 bp

RefSeq ORF: 1632 bp

Locus ID: 361512

UniProt ID: [Q4V8H8](#)

Cytogenetics: 1q21

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