

Product datasheet for **RN206638**

Ehd1 (NM_001011939) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ehd1 (NM_001011939) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ehd1
Synonyms:	RGD1306960
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN206638 representing NM_001011939
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTCAGCTGGGTGAGCAAGGATGCCCGCCGAAGAAGGAGCCGGAGCTCTCCAGACGGTGGCCGAGG
GGCTGCGGCAGCTGTACGCGCAGAAGCTGCTGCCGCTGGAGGAGCACTATCGCTTCCACGAGTTCATTCC
GCCGGCTCTGGAGGACGCTGACTTCGACAACAAACCCATGGTGTCTCTGGTCGGCCAGTACAGCACCGGC
AAGACCACCTTTCATCCGCCACTTGATCGAGCAGGACTTCCAGGGATGCGCATCGGGCCGGAGCCACCA
CCGACTCTTTCATCGCAGTCATGCATGGCCCCACCGAGGGCGTGGTGGCCGGCAACGCGCTCGTCGTGGA
CCCGCGGCCGCCCTTCCGCAAGCTTAACGCCTTCGGCAACGCCTTCTCAACAGGTTTCATGTGTGCACAG
CTGCCTAACCCAGTATTGGACAGCATTAGCATATTGACTCCTGGAATCCTGTCTGGAGAGAAGCAGC
GCATCAGCCGAGGTTATGACTTTGCGGCTGTCTTGGTGGTTCGAGAGCGTGTGGACCGCATATTCT
GCTCTTTGAGCCCAAGCTAGACATCTCAGATGAATTTTCAGAAGTCATCAAGGCCCTCAAAAATCAC
GAGGACAAGATCCGTGTGGTGTGAACAAAGCTGACCAAATTGAGACACAGCAGCTGATGCGAGTGTACG
GAGCTCTCATGTGGTGTGGGGAAGATCATCAACACCCCTGAGGTGGTCCGTGTCTACATTGGCTCCTT
CTGGTCACACCCACTGCTCATCCCTGACAACCGGAAGCTCTTTGAGGCAGAGGAGCAGGACCTCTTCAA
GACATCCAGTCTCTACCAAGAAATGCTGCCCTTAGGAAGCTCAATGACTTAATCAAGCGGGCCAGGCTGG
CCAAGGTCCATGCCTACATCATCAGTCCCTCAAGAAGGAGATGCCCAATGTCTTTGGGAAAGAGAGCAA
GAAGAAAGAGCTGGTGAACAACCTGGGAGAGATCTACCAGAAAATTGAGCGGGAGCACCAGATCTCCTCC
GGCGACTTCCCAAGCCTGCGTAAGATGCAGGAACCTCTGCAGACGCAGGACTTCAGCAAGTTCAGGCCT
TGAAGCCCAAGCTGCTGGATACGGTGGATGATATGCTGGCCAACGATATAGCTCGGCTGATGGTGGT
GCGCCAGGAGGATCCCTGATGCCCTCACAGGCTGTGAAGGGTGGTGTCTTTGATGGCACCATGAATGGG
CCCTTTGGGCATGGGTATGGCGAGGGGGCTGGCGAGGGCATTGATGATGTTGAGTGGGTAGTTGGCAAGG
ACAAGCCACCTATGATGAGATCTTCTACACACTGTCTCCTGTCAATGGCAAGATCACGGGCGCTAATGC
CAAGAAGGAGATGGTGAAGTCCAAGCTGCCTAACACAGTGTGGGGAAGATCTGGAAGCTGGCTGATGTG
GACAAGGATGGCCTGCTAGATGACGAGGAGTTGCCCTGGCCAACCACCTTATCAAGGTCAAGCTAGAGG
GCCATGAGCTGCCCGTGACCTTCTCCACATCTATCCACCCTCCAAACGGAGGCATGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001011939

Insert Size: 1605 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_001011939.2](#), [NP_001011939.1](#)

RefSeq Size: 3250 bp

RefSeq ORF: 1605 bp

Locus ID: 293692

UniProt ID: [Q641Z6](#)

Cytogenetics: 1q43

Gene Summary: ATP- and membrane-binding protein that controls membrane reorganization/tubulation upon ATP hydrolysis. In vitro causes vesiculation of endocytic membranes (By similarity). Acts in early endocytic membrane fusion and membrane trafficking of recycling endosomes (By similarity). Recruited to endosomal membranes upon nerve growth factor stimulation, indirectly regulates neurite outgrowth (PubMed:23572513). Plays a role in myoblast fusion (By similarity). Involved in the unidirectional retrograde dendritic transport of endocytosed BACE1 and in efficient sorting of BACE1 to axons implicating a function in neuronal APP processing (By similarity). Plays a role in the formation of the ciliary vesicle (CV), an early step in cilium biogenesis. Proposed to be required for the fusion of distal appendage vesicles (DAVs) to form the CV by recruiting SNARE complex component SNAP29. Is required for recruitment of transition zone proteins CEP290, RPGRIP1L, TMEM67 and B9D2, and of IFT20 following DAV reorganization before Rab8-dependent ciliary membrane extension. Required for the loss of CCP110 from the mother centriole essential for the maturation of the basal body during ciliogenesis (By similarity).[UniProtKB/Swiss-Prot Function]