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Product datasheet for MC217561

Ehd1 (NM_010119) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ehd1 (NM_010119) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ehd1
Synonyms:	AA409636; Past1; RME-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC217561 representing NM_010119
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCAGCTGGGTGAGCAAGGATGCCCGCCGCAAGAAGGAGCCGGAGCTCTTCCAGACGGTGGCCGAGG
GGCTGCGGCAGCTGTACGCGCAGAAGCTGCTGCCGCTGGAGGAGCACTATCGCTTCCACGAGTTCCACTC
GCCCGCGCTGGAGGACGCTGACTTCGACAACAAGCCGATGGTGCTCCTGGTCGGCCAGTACAGCACCGGC
AAGACCACCTTCATCCGCCACCTGATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCGGAGCCCACCA
CCGACTCCTTCATCGCGGTCATGCACGGCCCCACCGAGGGCGTGGTGCCCGGCAACGCGCTCGTCGTGGA
CCCGCGGCGCCCCTTCCGCAAGCTCAACGCCTTCGGCAACGCCTTCCTCAACAGGTTCATGTGTGCACAG
CTGCCCAACCCAGTACTGGACAGCATCAGCATCATTGACACTCCTGGGATCCTGTCTGGGGAGAAGCAGC
GCATCAGCCGAGGTTATGACTTTGCGGCTGTCCTTGAGTGGTTCGCAGAGCGTGTGGACCGCATCATCTT
GTTGTTCGACGCCCACAAGCTGGACATCTCAGACGAGTTCTCAGAAGTCATCAAGGCCCTCAAAAATCAC
GAGGACAAGATCCGTGTGGTGCTGAACAAGGCTGATCAGATCGAGACGCAGCAGCTGATGCGAGTATACG
GGGCCCTCATGTGGTCCCTGGGGAAGATCATCAACACCCCCGAGGTGGTCAGAGTCTACATCGGCTCCTT
CTGGTCACACCCACTGCTCATCCCTGACAACCGGAAGCTCTTCGAGGCAGAGGAGCAGGACCTCTTCAAA
GACATCCAGTCTCTGCCGAGAAACGCCGCCCTCAGGAAGCTCAATGACCTCATCAAGCGGGCCAGGCTGG
CCAAGGTCCATGCCTACATCATCAGCTCCCTCAAGAAGGAGATGCCCAATGTTTTCGGGAAAGAGAGCAA
GAAGAAAGAGCTGGTGAACAACCTGGGAGAGATCTACCAGAAGATCGAGCGGGAGCACCAGATCTCCTCC
GGCGACTTCCCAAGCCTGCGTAAGATGCAGGAACTCCTGCAGACCCAGGACTTCAGCAAGTTCCAGGCCT
TGAAGCCCAAGCTGCTGGATACAGTGGATGATATGCTGGCCAACGATATAGCTCGGCTGATGGTGATGGT
GCGCCAGGAGGAGTCCCTGATGCCCTCACAGGCTGTGAAGGGTGGTGCTTTTGATGGCACCATGAATGGG
CCCTTTGGGCATGGCTACGGCGAGGGGGCTGGCGAGGGCATTGATGATGTTGAGTGGGTAGTTGGCAAGG
ACAAGCCCACCTATGATGAGATCTTCTACACACTGTCTCCTGTCAACGGCAAGATCACAGGTGCTAATGC
CAAGAAGGAGATGGTGAAGTCCAAGCTGCCCAACACAGTGCTGGGGAAGATCTGGAAGTTGGCAGATGTG
GACAAGGATGGCCTGCTGGATGACGAGGAGTTTGCCCTGGCCAACCACCTTATCAAGGTGAAGCTAGAGG
GCCACGAGCTGCCCGCTGACCTTCCTCCACATCTCATTCCACCCTCCAAACGGAGGCACGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_010119

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_010119.5, NP_034249.1
RefSeq Size:	3182 bp
RefSeq ORF:	1605 bp
Locus ID:	13660
UniProt ID:	Q9WVK4
Cytogenetics:	19 4.4 cM
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 (PubMed:15930129, PubMed:20159556). Recruited to endosomal membranes upon nerve growth factor stimulation, indirectly regulates neurite outgrowth (By similarity). Plays a role in myoblast fusion (PubMed:21177873). 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 (PubMed:24373286). 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 form the mother centriole essential for the maturation of the basal body during ciliogenesis (By similarity).[UniProtKB/Swiss-Prot Function]