

## Product datasheet for **MG208555**

### Ehd1 (NM\_010119) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ehd1 (NM_010119) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ehd1
Synonyms:	AA409636; Past1; RME-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208555 representing NM\_010119  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTTCAGCTGGGTGAGCAAGGATGCCCGCCGAAGAAGGAGCCGGAGCTCTCCAGACGGTGGCCGAGG  
 GGCTGCGGCAGCTGTACGCGCAGAAGCTGCTGCCGCTGGAGGAGCACTATCGCTTCCACGAGTTCCACTC  
 GCCCGCGCTGGAGGACGCTGACTTCGACAACAAGCCGATGGTGCTCCTGGTCGGCCAGTACAGCACCCGGC  
 AAGACCACCTTTCATCCGCCACCTGATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCGGAGCCACCA  
 CCGACTCCTTTCATCGCGGTATGCACGGCCCCACCGAGGGCGTGGTGCCCGGCAACGCGCTCGTCGTGGA  
 CCCGCGGCCGCCCTTCCGCAAGCTCAACGCCTTCGGCAACGCCTTCTCAACAGGTTTCATGTGTGCACAG  
 CTGCCAACCCAGTACTGGACAGCATCAGCATATTGACTCCTGGGATCCTGTCTGGGAGAAGCAGC  
 GCATCAGCCGAGGTTATGACTTTGCGGCTGTCTTGTAGTGGTTCGAGAGCGTGTGGACCGCATCATCTT  
 GTTGTTCGACGCCACAAGCTGGACATCTCAGACGAGTCTCAGAAGTCATCAAGGCCCTCAAAAATCAC  
 GAGGACAAGATCCGTGTGGTGTGAACAAGGCTGATCAGATCGAGACGCAGCAGCTGATGCGAGTATACG  
 GGGCCCTCATGTGGTCCCTGGGGAAGATCATCAACACCCCGAGGTGGTCAGAGTCTACATCGGCTCCTT  
 CTGGTCACACCCACTGCTCATCCCTGACAACCGGAAGCTCTTCGAGGCAGAGGAGCAGGACCTCTTCAA  
 GACATCCAGTCTCTGCCGAGAAACGCCGCCCTCAGGAAGCTCAATGACCTCATCAAGCGGCCAGGCTGG  
 CCAAGGTCATGCCTACATCATCAGTCCCTCAAGAAGGAGATGCCCAATGTTTTTCGGGAAAGAGAGCAA  
 GAAGAAAGAGCTGGTGAACAACCTGGGAGAGATCTACCAGAAGATCGAGCGGGAGCACCAGATCTCCTCC  
 GGCGACTTCCCAAGCCTGCGTAAGATGCAGGAACCTCCTGCAGACCCAGGACTTCAGCAAGTTCAGGCCT  
 TGAAGCCCAAGCTGCTGGATACAGTGGATGATATGCTGGCCAACGATATAGCTCGGCTGATGGTGTGGT  
 GCGCCAGGAGGAGTCCCTGATGCCCTCACAGGCTGTGAAGGGTGGTGTCTTTGATGGCACCATGAATGGG  
 CCCTTTGGCATGGCTACGGCGAGGGGGCTGGCGAGGGCATTGATGATGTTGAGTGGGTAGTTGGCAAGG  
 ACAAGCCACCTATGATGAGATCTTCTACACACTGTCTCCTGTCAACGGCAAGATCACAGGTGCTAATGC  
 CAAGAAGGAGATGGTGAAGTCCAAGCTGCCAACACAGTCTGGGGAAGATCTGGAAGTTGGCAGATGTG  
 GACAAGGATGGCCTGCTGGATGACGAGGAGTTGCCCTGGCCAACCACCTTATCAAGGTGAAGCTAGAGG  
 GCCACGAGCTGCCCGTGACCTTCTCCACATCTATTCCACCCTCAAACGGAGGCACGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208555 representing NM\_010119  
 Red=Cloning site Green=Tags(s)

MFSWVSKDARRKKEPELFQTVAEGLRQLYAQKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVGQYSTG  
 KTTFFIRHLIEQDFPGMRIGPEPTTDSFIAVMHGPTTEGVVPGNALVVDPRRPFKRLNAFGNAFLNRFMCAQ  
 LPNPVLDISISIIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKNH  
 EDKIRVVLNKADQIETQQLMRVYGALMWSLGIINTPEVVRVYIGSFWSHPLLIPDNRKLFEEAEQDLFK  
 DIQSLPRNAALRKLNDLIKRRARLAKVHAYIISLKKEMPNVFGKESKKKELVNNLGEIYQKIEREHQISS  
 GDFPSLRKMQELLQTQDFSKFQALKPKLLDVTDDMLANDIARLMVMVRQEESLMPSQAVKGGAFDGTMNG  
 PFGHGYGEGAGEGIDDVEWVVGKDKPTYDEIFYTLSPVNGKITGANAKKEMVKSPLPNTVLGKIWKLADV  
 DKDGLLDDEEFALANHLIKVKLEGHELPA DLPPHLIPPSKRHE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

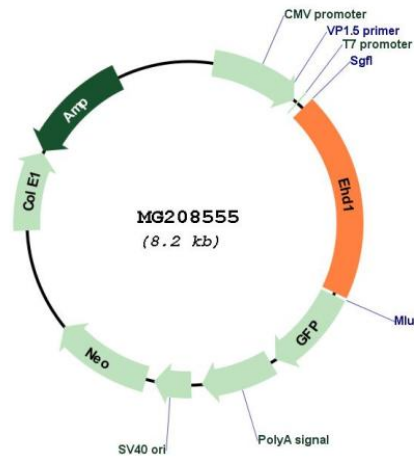
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_010119
<b>ORF Size:</b>	1602 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_010119.5</a> , <a href="#">NP_034249.1</a>
<b>RefSeq Size:</b>	3182 bp
<b>RefSeq ORF:</b>	1605 bp
<b>Locus ID:</b>	13660
<b>UniProt ID:</b>	<a href="#">Q9WVK4</a>
<b>Cytogenetics:</b>	19 4.4 cM
<b>Gene Summary:</b>	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, RPGRI1L, 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]