

Product datasheet for **MR208637**

Ehd4 (NM_133838) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ehd4 (NM_133838) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ehd4
Synonyms:	2210022F10Rik; AI197390; AI846352; AV006278; Past2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208637 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCAGCTGGATGGGGCGGCAGGCTGGCGGGCGCAGCGCTCGGGCGGCATGGACCGGTGCAGACGG
 TGACGGGCGGCCTGCGCTCTGTGTACCAGCGCAAGGTGCTGCCGCTGGAGGAGGCGTACCGCTTCCACGA
 GTTCCACTCGCCAGCGCTGGAGGACGCCGACTTCGAAAAAAGCCCATGATCCTGCTGGTGGCCAGTAC
 AGCACGGGCAAGACCACGTTTCATCAGATACTTACTGGAGCAAGATTTCCAGGCATGAGAATTTGGTCCAG
 AGCCAACCACAGATTCCTTCATTGCTGTGATGTATGGGGAGACTGAGGGAAGCACCCCTGGGAATGCTTT
 AGTTGTGGATCCCAAAAAGCCATTCCGAAAAGCTTAGTCGCTTTGGAAATGCTTTCCTGAACAGATTCATG
 TGCTCACAGCTGCCAACCAAGTCTGAAGAGCATCAGCATCATCGACAGTCTGGCATTCTGTCTGGGG
 AGAAGCAGCGCATAAGCCGAGGGTATGACTTCTGCCAGGTCTTACAGTGGTTTCCGAGAGGGTTGACAG
 GATCATCTGCTCTTTGACGCTCAGAAATTTGGACATCTCAGATGAGTTCTCAGAGGCGATCAAGGCCTTC
 CGGGGCCAGGATGACAAAATCCGAGTGGTACTGAACAAGGCTGACCAAGTGGATACACAGCAGCTGATGC
 GAGTCTATGGGGCCCTCATGTGGTCTCTGGGCAAGGTCATCAACACACCTGAAGTACTTCGAGTCTACAT
 TGGTTCATTTTGGGCACAGCCCTGCAAAAACCCGACAACCGCCGGCTCTTTGAGGCTGAAGCACAGGAC
 CTCTTCCGAGACATCCAGAGCCTGCCCCAGAAGGCTGCAGTGGCAGCAACTCAATGACCTCATCAAGCGTG
 CAAGGTTGGCCAAAGTCCACGCCTACATCATCAGTACCTGAAGAAGGAAATGCCAAATATGTTTGGAAA
 AGAAAAAAGAAGCGAGAATTTATCTACAGGCTCCCGAAATCTATGTTTCAGCTGCAGCGAGAATACCAG
 ATTTCTGCAGGGGACTTCCCTGAGGTCAAGGCCATGCAGGAGCAGCTGGAGAACTACGACTTCACCAAGT
 TCCACTACTGAAGCCCAAGCTGATCGAGGCTGTGGACAACATGCTGACCAACAAGATCTCATCCCTGAT
 GGGCCTCATCAGCCAGGAGGAGATGAACATGCCACGCAGATGGTGCAGGGCGGCCCTTTGATGGCACC
 ACAGAGGGGCCCTTCAACCAGGGCTATGGGGAGGGGGCCAAAGAGGGGGCCGATGAGGAAGAGTGGTCTG
 TGGCTAAAGACAAGCCGGTGTATGACGAACTCTTTTACACGCTGTCAACCATCAATGGCAAGATATCGGG
 TGTCAACGCCAAGAAGGAGATGGTGACCTCAAGCTGCCCAACAGTGTCTGGGCAAGATCTGGAAGCTG
 GCCGACTGCGACTGCGACGGCATGCTAGACGAGGAGGAGTTCGCGCTGGCCAAGCACCTCATCAAGATCA
 AGCTGGACGGCTACGAGCTGCCAACAGCCTGCCCCACACCTGGTGCCCCCTCCACAGGAAGTCCCT
 GCCAAAGGCTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208637 protein sequence
 Red=Cloning site Green=Tags(s)

MFSWMGRQAGGRERSGGMDAVQTVTGGLRSLYQRKVLPLEEAYRFHEFHSPALEDADFENKPMILLVQY
 STGKTTFIRYLLEQDFPGMRIGPEPTTDSFIAMVYGETEGSTPGNALVVDPKPFRKLSRFGNAFLNRFM
 CSQLPNQVLKSIISIIDSPGILSGEKQRISRGYDFCQVLQWFAERVDRIILLFDAHKLDISDEFSEAIKAF
 RGQDDKIRVVLNKADQVDTQQLMRVYGALMWSLGKVINTEPEVLRVYIGSFWAQPLQNTDNRRLEAEAQD
 LFRDIQSLPQKA AVRKLNDLIKRRARLAKVHAYIISYLKKEPNMFGKENKKRELIYRLPEIYVQLQREYQ
 ISAGDFPEVKAMQEQL ENYDFTKFHSLKPKLIEAVDNMLTNKISSLMGLISQEE MNMPTQMVQGGAFDGT
 TEGPFNQYGGEGAKEGADEEEWVAKDKPVYDEL FYTLSPINGKISGVNAKKEMVT SKLPNSVLGKIWKL
 ADCDCDGMLEEEFALAKHLIKIKLDGYELPNSLPPHLVPPSHRKS LPKAD

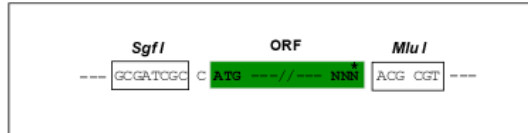
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_133838

ORF Size: 1626 bp

OTI Disclaimer: 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](#)
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_133838.3](#)
RefSeq Size: 3387 bp

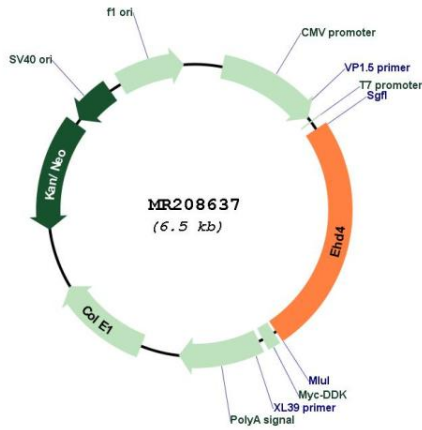
RefSeq ORF: 1626 bp

Locus ID: 98878

UniProt ID: [Q9EQP2](#)

Cytogenetics: 2 E5
MW: 61.5 kDa
Gene Summary: ATP- and membrane-binding protein that probably controls membrane reorganization/tubulation upon ATP hydrolysis. Plays a role in early endosomal transport. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208637