

Product datasheet for **MG208637**

Ehd4 (NM_133838) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ehd4 (NM_133838) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ehd4
Synonyms:	2210022F10Rik; AI197390; AI846352; AV006278; Past2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208637 representing NM_133838
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCAGCTGGATGGGGCGGCAGGCTGGCGGGCGCAGCGCTCGGGCGGCATGGACCGGTGCAGACGG
 TGACGGGCGGCTGCGCTCTCTGTACCAGCGCAAGGTGCTGCCGCTGGAGGAGGCGTACCGCTTCCACGA
 GTTCCACTCGCCAGCGCTGGAGGACGCCGACTTCGAAAAAAGCCCATGATCCTGCTGGTGGCCAGTAC
 AGCACGGGCAAGACCACGTTTCATCAGATACTTACTGGAGCAAGATTTCCAGGCATGAGAATTGGTCCAG
 AGCCAACCACAGATTCCTTCATTGCTGTGATGTATGGGGAGACTGAGGGAAGCACCCCTGGGAATGCTTT
 AGTTGTGGATCCCAAAAAGCCATTCCGAAAAGCTTAGTCGCTTTGGAAATGCTTTCCTGAACAGATTCATG
 TGCTCACAGCTGCCAACCAAGTCTGAAGAGCATCAGCATCATCGACAGTCTGGCATTCTGTCTGGGG
 AGAAGCAGCGCATAAGCCGAGGGTATGACTTCTGCCAGGTCTTACAGTGGTTTCCGAGAGGGTTGACAG
 GATCATCTGCTCTTTGACGCTCAGAAATTGGACATCTCAGATGAGTTCTCAGAGGCGATCAAGGCCTTC
 CGGGGCCAGGATGACAAAATCCGAGTGGTACTGAACAAGGCTGACCAAGTGGATACACAGCAGCTGATGC
 GAGTCTATGGGGCCCTCATGTGGTCTCTGGGCAAGGTCATCAACACACCTGAAGTACTTCGAGTCTACAT
 TGGTTCATTTTGGGCACAGCCCTGCAAAAACCCGACAACCGCCGGCTCTTTGAGGCTGAAGCACAGGAC
 CTCTTCCGAGACATCCAGAGCCTGCCCCAGAAGGCTGCAGTGCAGCAACTCAATGACCTCATCAAGCGTG
 CAAGGTTGGCCAAAGTCCACGCCTACATCATCAGTACCTGAAGAAGGAAATGCCAAATATGTTTGGAAA
 AGAAAAAAGAAGCGAGAATTTATCTACAGGCTCCCGAAATCTATGTTTCAGCTGCAGCGAGAATACCAG
 ATTTCTGCAGGGGACTTCCCTGAGGTCAAGGCCATGCAGGAGCAGCTGGAGAATACGACTTCACCAAGT
 TCCACTACTGAAGCCCAAGCTGATCGAGGCTGTGGACAACATGCTGACCAACAAGATCTCATCCCTGAT
 GGGCCTCATCAGCCAGGAGGAGATGAACATGCCACGCAGATGGTGCAGGGCGGCCCTTTGATGGCACC
 ACAGAGGGGCCCTTCAACCAGGGCTATGGGGAGGGGGCCAAAGAGGGGGCCGATGAGGAAGAGTGGTTCG
 TGGCTAAAGACAAGCCGGTGTATGACGAACTCTTTTACACGCTGTCAACCATCAATGGCAAGATATCGGG
 TGTCAACGCCAAGAAGGAGATGGTACCTCAAGCTGCCCAACAGTGTCTGGGCAAGATCTGGAAGCTG
 GCCGACTGCGACTGCGACGGCATGCTAGACGAGGAGGAGTTCGCGCTGGCCAAGCACCTCATCAAGATCA
 AGCTGGACGGCTACGAGCTGCCAACAGCCTGCCCCACACCTGGTGCCCCCTCCACAGGAAGTCCCT
 GCCAAAGGCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208637 representing NM_133838
 Red=Cloning site Green=Tags(s)

MFSWMGRQAGGRERSGGMDAVQTVTGGLRSLYQQRKVLPLEEAYRFHEFHSPALEDADFENKPMILLVGQY
 STGKTTFIRYLLEQDFPGMRIGPEPTTDSFIIVMYGETEGSTPGNALVDPKPPFRKLSRFGNAFLNRFM
 CSQLPNQVLKSIISIIDSPGILSGEKQRISRGYDFCQVLQWFAERVDRIILLFDAHKLDISDEFSEAIKAF
 RGQDDKIRVVLNKADQVDTQQLMRVYGALMWSLGKVINTEPEVLRVYIGSFWAQPLQNTDNRRLEFAEAQD
 LFRDIQSLPQKAAVRKLNLDIKRARLAKVHAYIISYLKEMPNMFGKENKKRELIYRLEIYVQLQREYQ
 ISAGDFPEVKAMQEQLNYDFTKFHSLKPKLIEAVDNMLTNKISSLMGLISQEMNMPTQMVQGGAFDGT
 TEGPFNQYGGEGAKEGADEEWWVAKDKPVYDELFTYTLSPINGKISGVNAKKEMVTSKLPNSVLGKIWKL
 ADCDCDGMLEEEFALAKHLIKIKLDGYELPNSLPPHLVPPSHRKSPLKAD

TRTRPLE - GFP Tag - V

Restriction Sites:

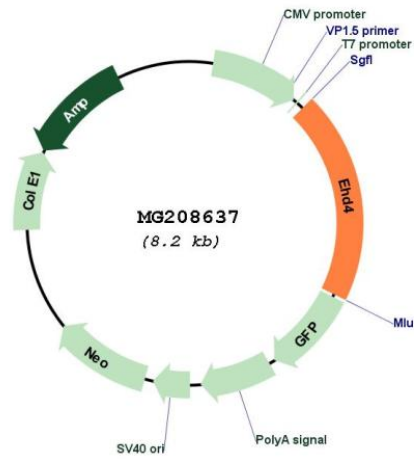
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_133838
ORF Size:	1623 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:	<ol style="list-style-type: none">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:	3452 bp
RefSeq ORF:	1626 bp
Locus ID:	98878
UniProt ID:	Q9EQP2
Cytogenetics:	2 E5
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]