

Product datasheet for **MR226177**

Enah (NM_010135) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enah (NM_010135) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Enah
Synonyms:	Mena; NDPP-1; Ndpp1; WBP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR226177 representing NM_010135
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGAACAGAGTATCTGTCAAGCAAGAGCTGTGTGATGGTCTATGATGATGCCAATAAGAAGTGGG
 TGCCAGCTGGTGGCTCAACTGGGTTCAAGCAGAGTACATATATATACCCATACAGGCAACAACACATTTCAG
 AGTTGTGGGCAGAAAGATTCAAGACCATCAGGTTGTGATAAACTGTGCCATTCTAAAGGCTGAAGTAC
 AATCAAGCTACACAGACTTTCCACCAATGGAGGGATGCTAGACAGGTGTATGGTCTCAACTTTGGCAGCA
 AAGAGGATGCCAATGTCTTCGCAAGTGCCATGATGCATGCCTTAGAAGTGTAAATTCACAGGAAGCAGC
 CCAGAGCAAGGTTACTGTACGCAGGACAGCACTAATTTGCGATGTATTTTCTGTGGCCAACTTGCCCT
 AGACAAAATTCACAGCTACCTGTCAAGTTCAAAATGGCCATCCCAAGAAGAGCTGGAAATCCAGAGAA
 GGCAACTGCAAGAACAGCAGCGACAGAAGGAAGTGGAGAGGGAAAGAATGGAGAGGGAAAGTTGGAGAG
 AGAACGACTAGAACGAGAGAGGCTAGAGAGGGAGCGCCTGGAACAAGAGCAGCTGGAGCGCAGCGGCAG
 GAAAGGGAGCACGTGGAGCGGCTGGAGAGGGAGAGGCTGGAGCGCCTGGAGCGAGAGAGGAGGAGCGGG
 AGCGAGAGCGCCTGGAGCAGCTGGAGCGGGAGCAAGTGGAGTGGGAGCGAGAGCGAGAATGTCCATGC
 TGCTCCATCTTCAGACAGCTCCCTGTCTAGTGCTCCACTTCTGAGTATTCAGTTGCCAGCCGCTTCG
 GCACCTCCTCCATCATATGCTAAAGTCACTCAGCTCCGGTGTGACAGCCACTCCTGATTACGCTGTAG
 TGACTGCTTTGCCACCTACTTCCACACCCCTACACCACCACTGAGACACGCAGCGACACGTTTTGCAAC
 ATCTCTAGGTTGAGCCTTCCACCCTGTTCTTCCCATTACGCTACAGTTCCTCGTCTCTCAACAAAAAC
 TCTCGACCTTCTTCTCCTGTGAACACACCTCTTCTCAGCCTCCAGTCCGAAGTCTGTGCCTGGCCTA
 CTTCCAATTTCTCGCCCTCCCTCCATCTCCTCAATAATGATTAGCAGCCCCCTGGCAAAGTACTGG
 CCCAGGCTGTCTTCCGTTTGTGTCTCCTCTCCTGTGCCCAATGCCTCCGTACCAACAGCACCC
 AATGGGTGCTAGACTCTGTAACATACCAAGTGTCTCCACCGCCTACCTCAGGGCCAGCAGCGCCACCTC
 CGCCGCCACCGCCACCGCCACCGCCGCCACCACCACCGCGCTGCCACCGCCGCGCTGCCTCCCT
 CGCCTCACTCTCACACTGTGGATCACAGGCTTCTCCTCCTCCAGGCACCCCTCTTGCCTCAACTCCCTCA
 TCCAAGCCAGTGTCTCCCTTCTCCCTCTGCAGCTGCCCTGCCTCTGCGGAGACCCCTCTAAATCCTG
 AGCTGGGAGACTCCTCTGCTTCCGAGCCAGGCTTGACAGGAGCCTCTCAGCCGGCCGAGTCGCCAACCC
 ACAGGGCCTTGTCTTGGGACCACCTGCACCTCCGCCACCACCCCTCTCCATCAGGCCCTGCCTACGCC
 TCAGCACTTCTCCTCCCCAGGACCCCTCCACCACCTCCACTGCCATCCACTGGTCTCCTCCTCCAC
 CCCTCCACCACCCCTCTTCTAATCAAGTCTCCTCCCTCCTCCCCACCTCTGCCCTCCCTCCCTCC
 CGCATCTGGAATTTCTCTGGATCCACGTGAGAAGACAATCGCCCTTAACTGGACTTGACAGCTGCAATT
 GCGGGAGCAAACTTAGGAAAGTGTCCCGGTGGAGGATGGCTCTTCCAGGTGGAGGGAATACTGGGA
 GTGTGAGCTTGGCCTCATCCAAAGCAGACGCTGGGCGTGGGAATGGACCTTCTCCTTAGGGGTAGTGG
 CTTAATGGAAGAAATGAGTGCCCTGTGGCCAGGAGGAGAAGAATTGCTGAGAAGGGATCAACAATAGAA
 ACAGAACAAAAGGAGACAGAAATGAAGATGCAGAGCCTATAACTGCTAAGGCCCATCAACAAGTACAC
 CTGAACCAACCAGAAAACCTTGGGAAAGAACAAACACAATGAACGGCAGTAAGTACCTGTATCTCCAG
 ACCAAAATCCACACCTTATCACAGCAAGTGCCAATGGAGTCCAGACAGAAGGCCTTGACTATGACAGG
 CTGAAGCAGGACATTTTAGATGAGATGAGAAAAGAGCTGGCAAAGCTGAAGGAGGAGCTTATTGACGCAA
 TCAGGCAGGAGCTGAGCAAGTGAACACTGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226177 representing NM_010135
 Red=Cloning site Green=Tags(s)

MSEQSICQARAAMVYDDANKKWVPAGGSTGFSRVHIYHHTGNNTFRVVGRKIQDHQVVINCAIPKGLKY
 NQATQTFHQWRDARQVYGLNFGSKEDANVFASAMMHALEVLNSQEAQSKVTATQDSTNLCIFCGPTLP
 RQNSQLPAQVQNGPSQEELEIQRRQLQEQRQKELERERMERERLERERLERERLERERLEQEQLERQRQ
 EREHVERLERERLERERERQERERERLEQLEREQVEWERERRMSNAAPSSDSSLSSAPLPEYSSCQPPS
 APPPSYAKVISAPVSDATPDYAVVTALPPTSTPPTPLRHAATRFATSLGSAFHPVLPHYATVPRPLNKN
 SRPSSPVNTPSSQPPAAKSCAWPTSNFSPLPPSPPIMISSPPGKATGPRPVLPCVSSPVPQMPSPSTAP
 NGSLDSVTYPVSPPTSGPAAPPPPPPPPPPPPPPPPLPPPPLPLASLSHCQSASPPPGTPLASTPS
 SKPSVLPSPSAAAPASAETPLNPELGDSSASEPGLQAASQPAESPTPQGLVLGPPAPPPPPPLPSGPAYA
 SALPPPPGPPPPPLPSTGPPPPPPPPPLPNQAPPPPPPPAPPLPASGIFSGTSEDNRPLTGLAAAI
 AGAKLRKVS RVEDGSFPGGNTGSVSLASSKADAGRNGPLPLGGSGLMEEMSALLARRRRIAEKGSTIE
 TEQKEDRNEDAEPITAKAPSTSTPEPTRKPWERTNTMNGSKSPVISRPKSTPSSQPSANGVQTEGLDYDR
 LKQDILDEMRKELAKLKEELIDAIRQELSKSNTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_010135

ORF Size: 2412 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_010135.3](#)

RefSeq Size: 4276 bp

RefSeq ORF: 2415 bp

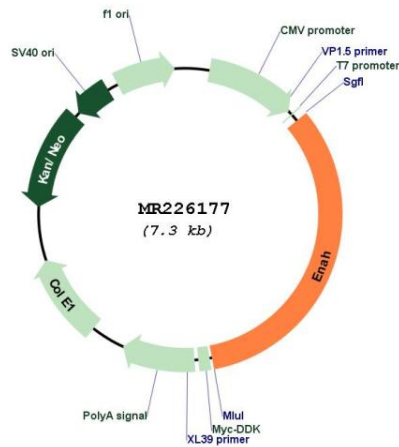
Locus ID: 13800

Cytogenetics: 1 84.93 cM

MW: 86.5 kDa

Gene Summary: Ena/VASP proteins are actin-associated proteins involved in a range of processes dependent on cytoskeleton remodeling and cell polarity such as axon guidance and lamellipodial and filopodial dynamics in migrating cells. ENAH induces the formation of F-actin rich outgrowths in fibroblasts. Acts synergistically with BAIAP2-alpha and downstream of NTN1 to promote filipodia formation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226177