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Product datasheet for RC215455

ENAH (NM_018212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENAH (NM_018212) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ENAH
Synonyms:	ENA; MENA; NDPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC215455 representing NM_018212
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGAACAGAGTATCTGTCAGGCAAGAGCTGCTGTGATGGTTTATGATGATGCCAATAAGAAGTGGG
TGCCAGCTGGTGGCTCAACTGGATTCAGCAGAGTTCATATCTATCACCATACAGGCAACAACACATTCAG
AGTGGTGGGCAGGAAGATTCAGGACCATCAGGTCGTGATAAACTGTGCCATTCCTAAAGGGTTGAAGTAC
AATCAAGCTACACAGACCTTCCACCAGTGGCGAGATGCTAGACAGGTGTATGGTCTCAACTTTGGCAGCA
AAGAGGATGCCAATGTCTTCGCAAGTGCCATGATGCATGCCTTAGAAGTGTTAAATTCACAGGAAACAGG
GCCAACATTGCCTAGACAAAACTCACAACTACCTGCTCAAGTTCAAAATGGCCCATCCCAAGAAGAATTG
GAAATTCAAAGAAGACAACTACAAGAACAGCAACGGCAAAAGGAGCTGGAGCGGGAAAGGCTGGAGCGAG
AAAGAATGGAAAGAGAAAGGTTGGAGAGAGAGAGGTTAGAAAGGGAAAGGCTGGAGAGGGAGCGACTGGA
ACAAGAACAGCTGGAGAGAGAGAGACAAGAACGGGAACGGCAGGAACGCCTGGAGCGGCAGGAACGCCTG
GAGCGGCAGGAACGCCTGGAGCGGCAGGAACGCCTGGATCGGGAGAGGCAAGAAAGACAAGAACGAGAGA
GGCTGGAGAGACTGGAACGGGAGAGGCAAGAAAGGGAGCGACAAGAGCAGTTAGAAAGGGAACAGCTGGA
ATGGGAGAGAGAGCGCAGAATATCAAGTGCTGCTGCCCCTGCCTCTGTTGAGACTCCTCTAAACTCTGTG
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AGGGCATTGTCTTGGGACCACTTGCACCTCCACCTCCTCCACCACTCCCACCAGGGCCTGCACAGGCTTC
AGTAGCCCTCCCTCCTCCCCCAGGGCCCCCTCCACCTCCTCCACTCCCATCCACCGGGCCTCCACCGCCC
CCTCCTCCCCCTCCTCTCCCTAATCAAGTACCCCCTCCTCCTCCACCACCTCCTGCCCCACCCCTCCCTG
CATCTGGATTCTTTTTGGCATCCATGTCAGAAGACAATCGCCCTTTAACTGGACTTGCAGCTGCAATTGC
CGGAGCAAAACTTAGGAAAGTGTCACGGATGGAGGATACCTCTTTCCCAAGTGGAGGGAATGCTATTGGT
GTGAACTCCGCCTCATCTAAAACAGATACAGGCCGTGGAAATGGACCCCTTCCTTTAGGGGGTAGTGGTT
TAATGGAAGAAATGAGTGCCCTGCTGGCCAGGAGGAGAAGAATTGCTGAAAAGGGATCAACAATAGAAAC
AGAACAAAAAGAGGACAAAGGTGAAGATTCAGAGCCTGTAACTTCTAAGGCCTCTTCAACAAGTACACCT
GAACCAACAAGAAAACCTTGGGAAAGAACAAATACAATGAATGGCAGCAAGTCACCTGTTATCTCCAGAC
CAAAATCCACACCCTTATCACAGCCCAGTGCCAATGGAGTCCAGACGGAAGGACTTGACTATGACAGGCT
GAAGCAGGACATTTTAGATGAAATGAGAAAAGAATTAACAAAGCTAAAAGAAGAGCTCATTGATGCAATC
AGGCAGGAACTGAGCAAGTCAAATACTGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215455 representing NM_018212
Red=Cloning site Green=Tags(s)

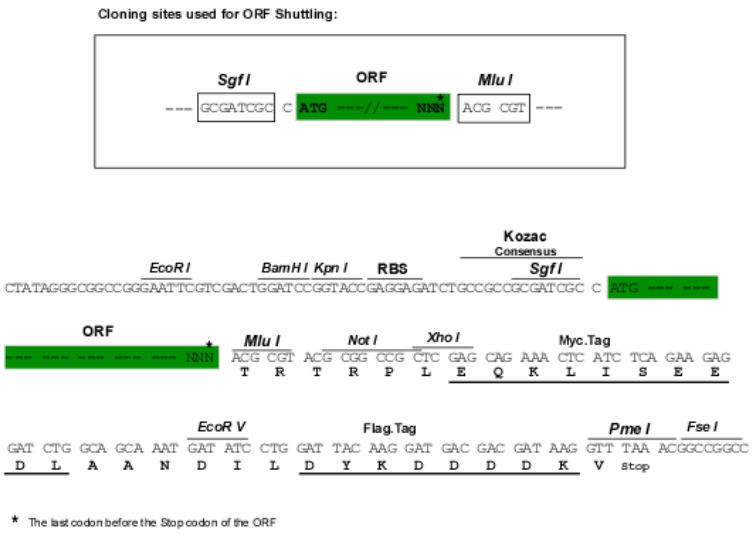
MSEQSICQARAAVMVYDDANKKWVPAGGSTGFSRVHIYHHTGNNTFRVVGRKIQDHQVVINCAIPKGLKY
NQATQTFHQWRDARQVYGLNFGSKEDANVFASAMMHALEVLNSQETGPTLPRQNSQLPAQVQNGPSQEEL
EIQRRQLQEQQRQKELERERLERERMERERLERERLERERLERERLEQEQLERERQERERQERLERQERL
ERQERLERQERLDRERQERQERERLERLERERQERERQEQLEREQLEWERERRISSAAAPASVETPLNSV
LGDSSASEPGLQAASQPAETPSQQGIVLGPLAPPPPPPLPPGPAQASVALPPPPGPPPPPPLPSTGPPPP
PPPPPLPNQVPPPPPPPPAPPLPASGFFLASMSEDNRPLTGLAAAIAGAKLRKVSRMEDTSFPSGGNAIG
VNSASSKTDTGRGNGPLPLGGSGLMEEMSALLARRRRIAEKGSTIETEQKEDKGEDSEPVTSKASSTSTP
EPTRKPWERTNTMNGSKSPVISRPKSTPLSQPSANGVQTEGLDYDRLKQDILDEMRKELTKLKEELIDAI
RQELSKSNTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8027_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018212

ORF Size: 1710 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_018212.6

RefSeq Size: 13109 bp

RefSeq ORF: 1713 bp

Locus ID: 55740

UniProt ID: Q8N8S7

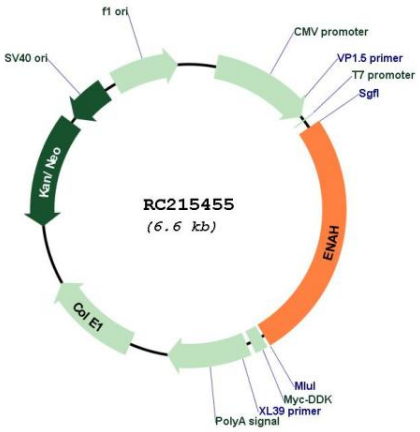
Cytogenetics: 1q42.12

Protein Pathways: Regulation of actin cytoskeleton

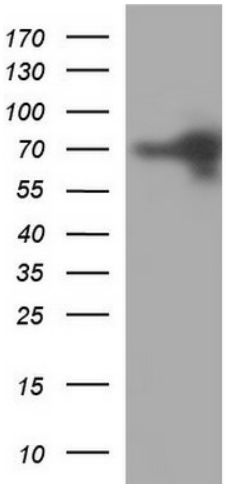
MW: 63.7 kDa

Gene Summary: This gene encodes a member of the enabled/ vasodilator-stimulated phosphoprotein. Members of this gene family are involved in actin-based motility. This protein is involved in regulating the assembly of actin filaments and modulates cell adhesion and motility. Alternate splice variants of this gene have been correlated with tumor invasiveness in certain tissues and these variants may serve as prognostic markers. A pseudogene of this gene is found on chromosome 3. [provided by RefSeq, Sep 2016]

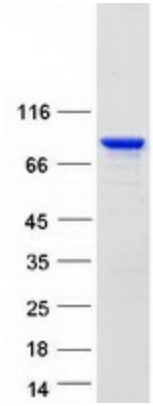
Product images:



Circular map for RC215455



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ENAH (Cat# RC215455, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ENAH(Cat# [TA590490]).



Coomassie blue staining of purified ENAH protein (Cat# [TP315455]). The protein was produced from HEK293T cells transfected with ENAH cDNA clone (Cat# RC215455) using MegaTran 2.0 (Cat# [TT210002]).