

## Product datasheet for **RG215455**

### ENAH (NM\_018212) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ENAH (NM_018212) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENAH
Synonyms:	ENA; MENA; NDPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG215455 representing NM\_018212  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGAACAGAGTATCTGTCAAGCAAGAGCTGCTGTGATGGTTTATGATGATGCCAATAAGAAGTGGG  
 TGCCAGCTGGTGGCTCAACTGGATTCAAGCAGAGTTCATATCTATCACCATACAGGCAACAACACATTTCAG  
 AGTGGTGGGCAGGAAGATTCAAGGACCATCAGGTCGTGATAAACTGTGCCATTCTAAAGGTTGAAGTAC  
 AATCAAGCTACACAGACCTCCACCAGTGGCGAGATGCTAGACAGGTGTATGGTCTCAACTTTGGCAGCA  
 AAGAGGATGCCAATGTCTTCGCAAGTGCCATGATGCATGCCTTAGAAGTGTAAATTCACAGGAAACAGG  
 GCCAACATTGCCTAGACAAAACCACTACAACACCTGCTCAAGTTCAAAATGGCCCATCCAAGAAGAATTG  
 GAAATTCAAAAGACAACACTACAAGAACAGCAACGGCAAAAGGAGCTGGAGCGGAAAGGCTGGAGCGAG  
 AAAGAATGAAAAGAGAAAGTTGGAGAGAGAGAGTTAGAAAGGAAAGGCTGGAGAGGGAGCGACTGGA  
 ACAAGAACAGCTGGAGAGAGAGAGACAAGAACGGGAACGGCAGGAACGCCTGGAGCGGCAGGAACGCCTG  
 GAGCGGCAGGAACGCCTGGAGCGGCAGGAACGCCTGGATCGGGAGAGGCAAGAAAGACAAGAACGAGAGA  
 GGCTGGAGAGACTGGAACGGGAGAGGCAAGAAAGGGAGCGACAAGAGCAGTTAGAAAGGGAACAGCTGGA  
 ATGGGAGAGAGAGCGCAGAATATCAAGTGTCTGCCCTGCCTCTGTTGAGACTCCTCTAAACTCTGTG  
 CTGGGAGACTCTTCTGCTTCTGAGCCAGGCTTGCAGGCAGCCTCTCAGCCGGCCGAGACTCCATCCCAAC  
 AGGGCATTGTCTTGGGACCACCTGCACCTCCACCTCCTCCACCCTCCACCAGGGCCTGCACAGGCTTC  
 AGTAGCCCTCCCTCCTCCCCAGGGCCCCCTCCACCTCCTCCACTCCCATCCACCGGGCCTCCACCGCCC  
 CCTCCTCCCCCTCCTCCTCAATCAAGTACCCCTCCTCCTCCACCCTCCTGCCCAACCCCTCCCTG  
 CATCTGGATTCTTTTGGCATCCATGTCAAGAACAATCGCCCTTAACTGGACTTGCAGCTGCAATTGC  
 CGGAGCAAAACTTAGGAAAGTGTACGGATGGAGGATACCTCTTCCCAAGTGGAGGGAATGCTATTGGT  
 GTGAACCTCCGCCTCATCTAAAACAGATACAGGCCGTGAAATGGACCCCTCCTTTAGGGGTAGTGGTT  
 TAATGGAAGAAATGAGTGCCCTGCTGGCCAGGAGGAGAAGAAATGCTGAAAAGGGATCAACAATAGAAAAC  
 AGAACAAAAGAGGACAAAGGTGAAGATTAGAGCCTGTAACCTTAAGGCCTCTTCAACAAGTACACCT  
 GAACCAACAAGAAAACCTTGGGAAAGAACAATAAATGAATGGCAGCAAGTACCTGTTATCTCCAGAC  
 CAAAATCCACACCCTTATCACAGCCAGTGCCAAATGGAGTCCAGACGGAAGGACTTGACTATGACAGGCT  
 GAAGCAGGACATTTAGATGAAATGAGAAAAGAATTAACAAGCTAAAAGAAGAGCTCATTGATGCAATC  
 AGGCAGGAAGTGAAGTCAAACTACTGCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG215455 representing NM\_018212  
 Red=Cloning site Green=Tags(s)

MSEQSICQARAAMVYDDANKKWPAGGSTGFSRVHIYHHTGNNTFRVVGRIQDQHVVINCAIPKGLKY  
 NQATQTFHQWRDARQVYGLNFGSKEDANVFASAMMHALEVLNSQETGPTLPRQNSQLPAQVQNGPSQEEL  
 EIQRRLQEQQRQKELERERLERERERLERERLERERLERERLEQEQLERERQERERERLERERLER  
 ERQERLERQERLDRERQERERERLERERERERERERERERERERERERERERERERERERERERER  
 LGDSSASEPGLQAASQPAETPSQGIIVLGPLAPPPPPPLPPGPAQASVALPPPPGPPPPPLPSTGPPPP  
 PPPPLPNQVPPPPPPPPAPPLPASGFFLASMSEDNRPLTGLAAAIAGAKLRKVSREMEDTSFSPSGNAIG  
 VNSASSKTDTRGNGPLPLGSGSMEEMSALLARRRRIAEKGSTIETEQQEKEDKGEDSEPVTSKASSTSTP  
 EPTRKPWERTNTMNGSKSPVISRPKSTPLSQPSANGVQTEGLDYDRLKQDILDEMRKELTKLKEELIDAI  
 RQELSKSNTA

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-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

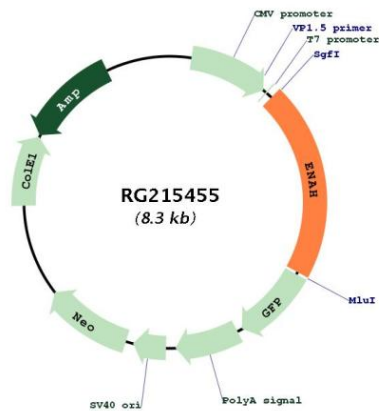
**UniProt ID:** [Q8N8S7](#)

**Cytogenetics:** 1q42.12

**Protein Pathways:** Regulation of actin cytoskeleton

**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 RG215455