

## Product datasheet for **RG210677**

### ENAH (NM\_001008493) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ENAH (NM_001008493) 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:**

>RG210677 representing NM\_001008493  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGAACAGAGTATCTGTCAAGCAAGAGCTGCTGTGATGGTTTATGATGATGCCAATAAGAAGTGGG  
 TGCCAGCTGGTGGCTCAACTGGATTCAAGCAGAGTTCATATCTATACCATACAGGCAACAACACATTCAG  
 AGTGGTGGGCAGGAAGATTCAAGGACCATCAGGTCGTGATAAACTGTGCCATTCTAAAGGTTGAAGTAC  
 AATCAAGCTACACAGACCTCCACCAGTGGCGAGATGCTAGACAGGTGTATGGTCTCAACTTTGGCAGCA  
 AAGAGGATGCCAATGTCTTCGCAAGTGCCATGATGCATGCCTTAGAAGTGTAAATTCACAGGAAACAGG  
 GCCAACATTGCCTAGACAAAACCACTACAACTACCTGCTCAAGTTCAAAATGGCCCATCCAAGAAGAATTG  
 GAAATTCAAAAGACAACACTACAAGAACAGCAACGGCAAAAGGAGCTGGAGCGGAAAGGCTGGAGCGAG  
 AAAGAATGAAAAGAGAAAGGTTGGAGAGAGAGAGGTTAGAAAGGAAAGGCTGGAGAGGGAGCGACTGGA  
 ACAAGAACAGCTGGAGAGAGAGAGACAAGAACGGGAACGGCAGGAACGCCTGGAGCGGCAGGAACGCCTG  
 GAGCGGCAGGAACGCCTGGAGCGGCAGGAACGCCTGGATCGGGAGAGGCAAGAAAGACAAGAACGAGAGA  
 GGCTGGAGAGACTGGAACGGGAGAGGCAAGAAAGGAGGCAAGAGCAGTTAGAAAGAGAACAGCTGGA  
 ATGGGAGAGAGAGCGCAGAATATCAAGTGTCTGCCCTGCCTCTGTTGAGACTCCTCTAAACTCTGTG  
 CTGGGAGACTCTTCTGCTTCTGAGCCAGGCTTGCAGGCAGCCTCTCAGCCGGCCGAGACTCCATCCCAAC  
 AGGGCATTGTCTTGGGACCACCTGCACCTCCACCTCCTCCACCCTCCACCAGGGCCTGCACAGGCTTC  
 AGTAGCCCTCCCTCCTCCCCAGGGCCCCCTCCACCTCCTCCACTCCCATCCACCGGGCCTCCACCGCCC  
 CCTCCTCCCCCTCCTCCTCAATCAAGTACCCCTCCTCCTCCACCCTCCTGCCACCCCTCCCTG  
 CATCTGGATTCTTTTGGCATCCATGTCAAGAACAATCGCCCTTAACTGGACTTGCAGCTGCAATTGC  
 CGGAGCAAAACTTAGGAAAGTGTACGGATGGAGGATACCTCTTCCCAAGTGGAGGGAATGCTATTGGT  
 GTGAACCTCCGCCTCATCTAAAACAGATACAGGCCGTGAAATGGACCCCTTCTTTAGGGGTAGTGGTT  
 TAATGGAAGAAATGAGTGCCCTGCTGGCCAGGAGGAGAAGAAATGCTGAAAAGGGATCAACAATAGAAAAC  
 AGAACAAAAGAGGACAAAGGTGAAGATTCAAGCCTGTAACCTTAAGGCCTCTCAACAAGTACACCT  
 GAACCAATAAGAAAACCTTGGGAAAGAACAATAAATGAATGGCAGCAAGTACCTGTTATCTCCAGAC  
 GGGATTCTCAAGGAAAATCAGATTGTTTTGACAACAGGTCTATGATTCATTACACAGACCAAAATC  
 CACACCCTTATCACAGCCAGTCCCAATGGAGTCCAGACGGAAGGACTTGACTATGACAGGCTGAAGCAG  
 GACATTTTAGATGAAATGAGAAAAGAAATAACAAAGCTAAAAGAAGAGCTATTGATGCAATCAGGCAGG  
 AACTGAGCAAGTCAAATACTGCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG210677 representing NM\_001008493  
 Red=Cloning site Green=Tags(s)

MSEQSIQARAAMVYDDANKKWPAGGSTGFSRVHIYHHTGNNTFRVVRKIQDQHVVINCAIPKGLKY  
 NQATQTFHQWRDARQVYGLNFGSKEDANVFASAMMHALEVLNSQETGPTLPRQNSQLPAQVQNGPSQEEL  
 EIQRRLQEQQRQKELERERLERERERLERERLERERLERERLEQEQLERERQERERQERLERQERL  
 ERQERLERQERLDRERQERERERLERERERQERERQERERLEWERERRISSAAAPASVETPLNSV  
 LGDSSASEPGLQAASQPAETPSQQGIVLGPLAPPPPPPLPPGPAQASVALPPPPPPPPPLPSTGPPPP  
 PPPPLPNQVPPPPPPPPAPPLPASGFFLASMSEDNRPLTGLAAAIAKLRKVSREMEDTSFSPGGNAIG  
 VNSASSKTDTRGNGPLPLGSGLMEEMSALLARRRRIAEKGSTIETEQKEDKGEDSEPVTSKASSTSTP  
 EPIRKPWERTNTMNGSKSPVISRRDSPRNQIVFDNRSYDSLHRPKSTPLSQPSANGVQTEGLDYDRLLKQ  
 DILDEMRKELTKLKEELIDAIRQELSKSNTA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001008493

**ORF Size:** 1773 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\\_001008493.1](#), [NP\\_001008493.1](#)

**RefSeq Size:** 13172 bp

**RefSeq ORF:** 1776 bp

**Locus ID:** 55740

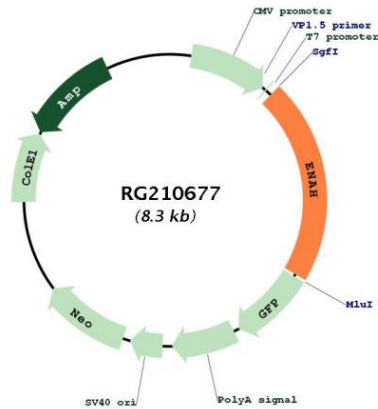
**UniProt ID:** [Q8N8S7](#)

**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 RG210677