

## Product datasheet for RC224659

## EN1 (NM 001426) Human Tagged ORF Clone

### **Product data:**

**Product Type: Expression Plasmids** 

**Product Name:** EN1 (NM\_001426) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: EN1

Synonyms: **ENDOVESLB Mammalian Cell** 

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

**ORF Nucleotide** >RC224659 representing NM\_001426

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAAGAACAGCCGGAACCTAAAAGTCAGCGCGACTCGGCCCTCGGCGGCGCGGCGGCGGCGACTC CGGGCGGCCTCAGCCTGAGCCTCAGTCCGGGCGCCAGCGGCAGCGGCAGCGGCAGCGATGGAGACAG CACCCGCACCTCCCCCACACCCCCCGCCCCCGCCGCCTCAGCATCTCGCGGCGCCTGCTCACCAGCCGC AGCCAGCGGCCCAGCTGCACCGCACCACCTTTTTCATCGACAACATCCTGAGGCCGGACTTCGGCTG CGGGTCGAGCGTGACAGAGGCCAGACTGCCGCAGGTAGAGACCCTGTCCACCCGTTGGGCACCCGGGCGC CGCCGGCGGGGGGGCGTCTAAAGCTGGGAACCCGGCTGCGGCGGCGGCGGCGGCGGCGGCGGCAGTGGCG GCGGCGGCGGCGCCAGCAGCCAAGCCCTCGGACACCGGTGGCGGCGGCAGTGGAGGCGGCGCGGGGA GCCCGGAGCGCAGGGCACCAAATACCCGGAGCACGGCAACCCGGCTATCCTACTTATGGGCTCAGCCAA CGGCGGGCCCGTGGTCAAAACTGACTCGCAGCAGCCTCTCGTATGGCCCGCCTGGGTGTACTGCACACGT TATTCGGATCGTCCATCCTCCGGTCCGCGCACCAGGAAGCTGAAGAAGAAGAAGAACGAGAAGGAGGACA AGCGGCCGCGGACCGCGTTCACGGCCGAGCAGCTGCAGAGACTCAAGGCGGAGTTCCAGGCAAACCGCTA CATCACGGAGCAGCGGCGGCAGACCCTGGCCCAGGAACTCAGCCTCAACGAGTCCCAGATCAAGATCTGG TTCCAGAACAAGCGCGCCAAGATCAAGAAAGCCACAGGCATCAAGAACGGCCTGGCGCTGCACCTCATGG CCCAGGGACTGTACAACCACTCCACCACCACGGTCCAGGACAAAGACGAGAGCGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC224659 representing NM\_001426

Red=Cloning site Green=Tags(s)

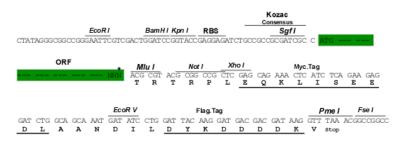
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk8007">https://cdn.origene.com/chromatograms/mk8007</a> f03.zip

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001426

ORF Size: 1176 bp

**OTI Disclaimer:** 

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:customer.com">customer.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

#### EN1 (NM\_001426) Human Tagged ORF Clone - RC224659

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: <u>NM 001426.2</u>, <u>NP 001417.2</u>

 RefSeq Size:
 2943 bp

 RefSeq ORF:
 1179 bp

 Locus ID:
 2019

 UniProt ID:
 Q05925

 Cytogenetics:
 2q14.2

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS

**MW:** 39.9 kDa

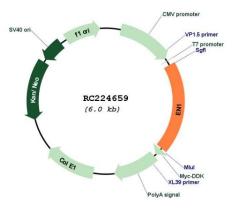
**Gene Summary:** Homeobox-containing genes are thought to have a role in controlling development. In

Drosophila, the 'engrailed' (en) gene plays an important role during development in segmentation, where it is required for the formation of posterior compartments. Different mutations in the mouse homologs, En1 and En2, produced different developmental defects that frequently are lethal. The human engrailed homologs 1 and 2 encode homeodomain-containing proteins and have been implicated in the control of pattern formation during

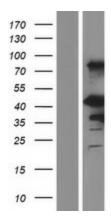
development of the central nervous system. [provided by RefSeq, Jul 2008]



# **Product images:**



Circular map for RC224659



Western blot validation of overexpression lysate (Cat# [LY419942]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224659 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).