

## Product datasheet for RC222693

### ZNF174 (NM\_003450) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ZNF174 (NM\_003450) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ZNF174  
**Synonyms:** ZSCAN8  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC222693 representing NM\_003450  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGCTAAAATGGAGATAACTTTAAGCTCCAACACTGAAGCTTCTCCAAGCAAGAGAGACACATAA  
 TAGCCAACTAGAAGAGAAACGGGGCCCTCTCTGCAAAAAACTGCCAGATCTGAGCTCTGCCGCCA  
 GAGCTTACAGCGCTTTTGTATCAAGAGGTGTCTGGACCCCAAGAGGCGCTCTCCAGCTCCGACAGCTC  
 TGCCGTCACTGGTTGCAACCCGAGCTGCACACCAAGGAGCAGATTTTGGAGCTTCTGGTGTGGAGCAGT  
 TCCTGACCATCTGCCCCGGAGATCCAGGCTCGGGTCAGGCATCGATGTCCAATGAGCAGCAAGGAGAT  
 TGTGACCTCGTGAAGATTTTACAGAGCATCCAAGAAACAAAGCAGTGGGTGGCCGTTTGTATGCAG  
 GGGCAAAAGGTGCTCTTGAGAAAAGTGGATCTCAGCTTGGAGAACAGGAAGTCCAGACTTTCAACCGC  
 AGACTCCTAGGAGAGATCTCAGGGAGAGCTCTCCAGCAGAGCCTTCCAGGCAGGAGCTTATGACCGGT  
 GAGCCCCATCATTGGGAGAAAATCCCCACTCTCCAAGAACCAACCCCCAAATTGGCTGGGACAGAGGCC  
 CCCAGAAATGAGAAGTGACAACAAGGAAAATCCACAACAGGAAGGGGCTAAAGGAGCAAAGCCATGTGCAG  
 TGTCAGCTGGCAGATCCAAGGGGAATGGTCTGCAGAATCTGAACCAAGAGGGGCAAATATGAGTGAACC  
 TCGGTTGTACGGAGGCAGGTCACTCCCCAAATGCTCAAAGCCATTTGCTCACTACCAGAGACATTGC  
 AGGGTGAATACATCAGCAGCCCCCTAAAAAGCCACCCACTGAGAGAGCTAAAGAAAAGCAAAGGAGGTA  
 AACGGAGTCTGAGCAACCGTTTGAACATCTTGGTCACCAGCCACCCGCTCAGCAAAAGAAACCCCTACAA  
 ATGTGATGACTGTGGAAAAGCTTACGTGGAATTCAGAGCTGAAGAGACACAAGAGAGTCCACACAGGA  
 GAGAGACCCTACAGTGCAGGAGAGTGTGGAAAAGTCTTTGGGCGCAGTCAACCCGAAAGCTGCACCAGA  
 GGATCCCACTGGAGAGAAGCCATACCAGTGTGGCCAGTGTGGAAAAGCTTTGCCAGAGCTCAAACCT  
 TCACCAGCATACCGACTTACCATGGGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC222693 representing NM\_003450  
Red=Cloning site Green=Tags(s)

MAAKMEITLSSNTEASSKQERHIIAKLEEKRPPLQKNCPPELCRQSFRRFCYQEVSGPQEALSQLRQL  
 CRQWLQPELHTKEQILELLVMEQFLTILPPEIQARVRHRCPMSSKEIVTLVEDFHRASKPKQWVAVCMQ  
 GQKVLLEKTGSQLEQELPDFQPQTPRRDLRESSPAEPSQAGAYDRLSPHHWEKSPLLQEPKLAGTEA  
 PRMRSDNKENPQQEGAKGAKPCAVSAGRSKGNLQNPPEPRGANMSEPRLSRRQVSSPNAQKPF AHYQRHC  
 RVEYISSPLKSHPLRELKSKGGKRSLSNRLQHLGHQPTRSAKKPYKCDDCGKSF TWNSSELKRHKRVHTG  
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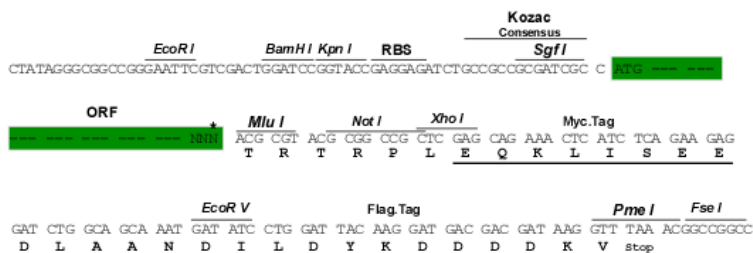
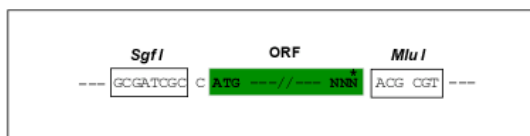
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6485\\_h07.zip](https://cdn.origene.com/chromatograms/mk6485_h07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_003450

**ORF Size:** 1221 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\\_003450.1](#), [NP\\_003441.1](#)

**RefSeq Size:** 2264 bp

**RefSeq ORF:** 1224 bp

**Locus ID:** 7727

**UniProt ID:** [Q15697](#)

**Cytogenetics:** 16p13.3

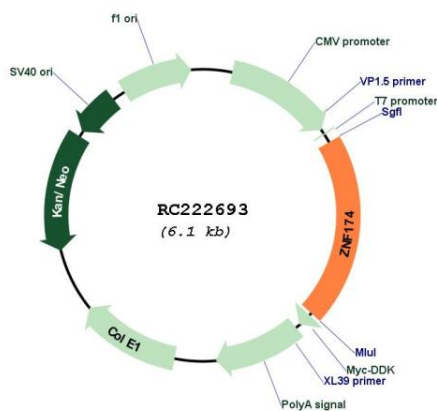
**Domains:** LER, zf-C2H2

**Protein Families:** Transcription Factors

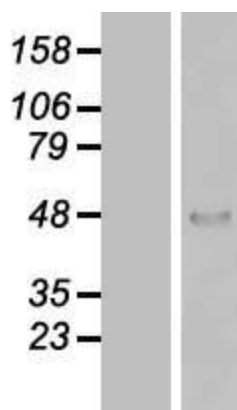
**MW:** 46.3 kDa

**Gene Summary:** This gene encodes a protein with three Cys2-His2-type zinc fingers in the carboxy-terminus, a putative nuclear localization signal, and an amino-terminus SCAN box which forms homodimers. This protein is believed to function as a transcriptional repressor. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Dec 2016]

### Product images:



Circular map for RC222693



Western blot validation of overexpression lysate (Cat# [LY418676]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222693 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).