

## Product datasheet for **RG222693**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF174 (NM_003450) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF174
Synonyms:	ZSCAN8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222693 representing NM_003450 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCTAAAATGGAGATAACTTTAAGCTCCAACACTGAAGCTTCTCCAAGCAAGAGAGACACATAA  
TAGCCAAACTAGAAGAGAAACGGGGCCCTCCTCTGCAAAAAACTGCCAGATCCTGAGCTCTGCCGCCA  
GAGCTTCAGACGCTTTTGTATCAAGAGGTGTCTGGACCCCAAGAGGCGCTCTCCAGCTCCGACAGCTC  
TGCCGTCAGTGGTTGCAACCCGAGCTGCACACCAAGGAGCAGATTTTGGAGCTTCTGGTGTGGAGCAGT  
TCCTGACCATCCTGCCCCGGAGATCCAGGCTCGGGTCAGGCATCGATGTCCAATGAGCAGCAAGGAGAT  
TGTGACCTCGTGAAGATTTTCACAGAGCATCCAAGAAACCAAGCAGTGGGTGGCCGTTTGTATGCAG  
GGGCAAAAGGTGCTCTTGAGAAAAGTGGATCTCAGCTTGGAGAACAGGAAGTCCAGACTTTCAACCGC  
AGACTCCTAGGAGAGATCTCAGGGAGAGCTCTCCAGCAGAGCCTTCCAGGCAGGAGCTTATGACCGGCT  
GAGCCCCATCATTGGGAGAAAATCCCCACTCCTCCAAGAACCAACCCCCAAATTGGCTGGGACAGAGGCC  
CCCAGAAATGAGAAGTGACAACAAGGAAAATCCACAACAGGAAGGGGCTAAAGGAGCAAAGCCATGTGCAG  
TGTCAGCTGGCAGATCCAAGGGGAATGGTCTGCAGAATCCTGAACCAAGAGGGGCAAATATGAGTGAACC  
TCGGTTGTACGGAGGCAGGTCAAGTCCCCAAATGCTCAAAGCCATTTGCTCACTACCAGAGACATTGC  
AGGGTGAATACATCAGCAGCCCCCTAAAAAGCCACCCACTGAGAGAGCTAAAGAAAAGCAAAGGAGGTA  
AACGGAGTCTGAGCAACCGTTTGAACATCTTGGTCACCAGCCACCCGCTCAGCAAAAGAAACCCCTACAA  
ATGTGATGACTGTGGAAAAGCTTACAGTGAATTCAGAGCTGAAGAGACACAAGAGAGTCCACACAGGA  
GAGAGACCCTACAGTGCAGGAGAGTGTGGAAAAGTCTTTGGGCGCAGTCAACCCGAAAGCTGCACCAGA  
GGATCCCACTGGAGAGAAGCCATACCAGTGTGCCAGTGTGGAAAAGCTTTGCCAGAGCTCAAACCT  
TCACCAGCATACCGACTTACCATGGGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222693 representing NM\_003450  
 Red=Cloning site Green=Tags(s)

MAAKMEITLSSNTEASSKQERHIIAKLEEKRGPPPLQKNCPPELCRQSFRRFCYQEVSGPQEALSQLRQL  
 CRQWLQPELHTKEQILELLVMEQFLTILPPEIQARVRHRCPMSSKEIVTLVEDFHRASKPKQWVAVCMQ  
 GQKVLLEKTGSQLEQELPDFQPQTPRRDLRESSPAEPSQAGAYDRLSPHHWEKSPLLQEPTPKLAGTEA  
 PRMRSDNKENPQQEGAKGAKPCAVSAGRSKGNLQNPPEPRGANMSEPRLSRRQVSSPNAQKPF AHYQRHC  
 RVEYISSPLKSHPLRELKSKGGKRSLSNRLQHLGHQPTRSAKKPYKCDDCGKSF TWNSELKRHKRVHTG  
 ERPYTCGECGNCFRQSTLKLHQRIHTGEKPYQCQCQCGKSFQSSNLHQHRLHHGD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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](#)

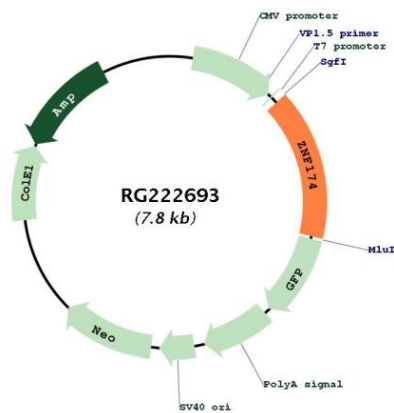
**Cytogenetics:** 16p13.3

**Domains:** LER, zf-C2H2

**Protein Families:** Transcription Factors

**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 RG222693