

## Product datasheet for **RC230367**

### **ZNF540 (NM\_001172226) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ZNF540 (NM_001172226) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF540
Synonyms:	Nbla10512
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230367 ORF sequence, **codon optimized**.  
 Due to the complexity of NM\_001172226, the ORF clone is codon optimized for mammalian Expression.  
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCACATGCTCTTGTGACATTCAGAGACGTTGCGATTGATTTTTACAGAAAGAATGGGAATGCCTCG  
 ATACAACCTCAGCGGAAGCTTTATCGGGACGTGATGCTGGAGAACTATAATAACCTTGTGAGCCTCGGACT  
 GCTCAGCCGGCATAAGACTAAGAAATTGAGCAGTGAAAAAGACATCCACGAGATCTCACTCTCAAAGGAA  
 TCAATCATAGAAAAGTCAAAGACCCTGCGACTGAAGGGTCCATATTCAGAAACGAGTGGCAAAAATAAAA  
 GTGAGTTTGAGGGTCAGCAGGGTCTTAAGGAGAGGAGCATCTCTCAGAAAAAATCGTTTCTAAGAAAAT  
 GTCAACAGACCGAAAGCGGCCTTCTTCACGCTCAATCAGCGGATTCACAACTCTGAGAAGTCATGTGAT  
 AGCCACTTGGTACAGCATGGCAAGATTGATAGTGATGTGAAGCACGATTGTAAGGAGTGCAGCAGCAGT  
 TCAACAATGTGTACCAGCTTACATTGCATCAGAAGATACATACCGGAGAAAAGTCTTGCAAAATGTAAAA  
 ATGCGGCAAAAGTGTCTCCACAGCTACCAGCTGACCTGCATCAGAGGTTCCACACCGGGGAAAAGCCC  
 TATGAGTGCCAGGAATGTGGTAAGACATTTACTTTGTATCCACAGTTGAACCGCCATCAAAAAATCCACA  
 CCGGTAAGAAACCTATATGTGCAAAAAGTGCACAAAAGGGTTTTTTCTCGCCTGGAGCTGACACAGCA  
 CAAAAGGATCCACACCGGAAAAGAGCTACGAATGTAAGGAGTCCGGTAAAGTGTCCAACCTTATATTC  
 TACTTTAAAGAACACGAGCGAATCCACACTGGCAAAAAGCCATACGAATGTAAGGAGTGCAGCAAGCCT  
 TCTCAGTTTGCAGCCAGCTGACCAGGCACCAGAAAATTCACACAGGCGTGAAGCCCTACGAATGCAAGA  
 GTGCGGAAAACCTTCAGACTTAGTTTCTACCTGACTGAACATCGGCGCACTCACGCCGAAAAAGCCC  
 TACGAGTGCAAGGAATGCGGAAAATCCTTTAACGTGCGGGCCAGCTTAATAGACATAAGACCATCCACA  
 CTGGAATAAAACCGTTTCGCTTGTAAAGTTTGCAGAAAGCGTTCTCTTATTCTGGAGACTGCGAGTCCA  
 TTCTAGAATCCATACAGGCGAGAAACCTATGAATGTAAGGAGTGGCAAGGCGTTTCATGCTGCGAAGC  
 GTCCTGACGGAGCACCAGCGCTGCATACTGGGTGAAGCCCTATGAGTGTAAAGATGCGGCAAAACAT  
 TCCGGGTGCGCAGCCAGATCAGCCTTACAAGAAGATTCATACAGACGTGAAGCCATATAAATGTGTTAG  
 GTGTGGTAAAACCTTTTAGGTTCCGGTCTATCTGACCGAACATCAGAGAATTCACACTGGGAAAAACCC  
 TACAAGTGCAAGAATGCGGGAAGGCATTCATCCGGCGGGGAAATCTTAAAGAACATCTGAAGATCCACT  
 CCGGTTTGAAGCCATATGACTGTAAGGAATGCGGAAAAGTTTTTACGACGGGGCAGTTCACAGAGCA  
 CCAGAAAATCCACACTGGAGTCAAGCCCTATAAATGTAAGAGAGTGCAGAAAGGCTTTTAGCCGATCAGTT  
 GATCTGAGAAATCCATCAGCGGATCCATACCGGTGAGAAACCTATGAATGCAACAGTGCAGCAAGGCT  
 TCCGCTTGAATAGCCATCTGACAGAACATCAGCGGATACATACAGGAGAAAAGCCTTATGAATGCAAGGT  
 TTGTAGAAAGGCTTTTCGCCAGTACAGCCACCTGTATCAACATCAGAAGACACATAACGTCATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230367 representing NM\_001172226  
Red=Cloning site Green=Tags(s)

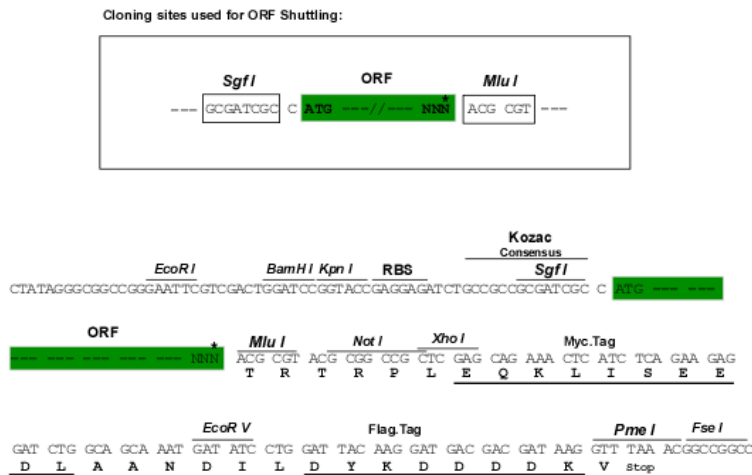
MAHALVTRFDVAIDFSQKEWECLDTTQRKLYRDVMLENYNNLVSLGLLSRHKTKKLSSEKDIHEISLSKE  
 SIIIEKSKTLRLKGSIFRNEWQNKSEFEGQQGLKERSISQKKIVSKKMSTDRKRPSFTLNQRIHNSEKSCD  
 SHLVQHGGIDSDVKHDCKECCGTFNNVYQLTLHQKIHTGEKSKCEKCGKVFVSHSYQLTLHQRFHTGEKP  
 YECQECGKTFTL YPQLNRHQKIHTGKKPYMCKKCDKGGF SRLEL TQHKRIHTGKKS YECKECCGKVFQIF  
 YFKEHERIHTGKKPYECKECCGKAF SVCGQLTRHQKIHTGVKPYECKECCGKTFRLSFYLT EHRRTAGKPK  
 YECKECCGKSFNVRGQLNRHKTIHTGIKPFACKVCEKAFSYSGDLRVHSRIHTGEKPYECKECCGKAFMLRS  
 VLTEHQRLHTGVKPYECKECCGKTFRVRQSISLHKKIHTDVKPYKCVRCGKTFRFGFYLT EHQRIHTGEKP  
 YKCKECCGKAFIRRGNLKEHLKIHSGLKPYDCKECCGKSF SRRGQFTEHQKIHTGVKPYKCKECCGKAF SRSV  
 DLRIHQRIHTGEKPYECKQCGKAFRLNSHLTEHQRIHTGEKPYECKVCRKAFRQYSHLYHQKTHNVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



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

**ACCN:** NM\_001172226

**ORF Size:** 1884 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\\_001172226.1](#), [NM\\_001172226.2](#), [NP\\_001165697.1](#)

**RefSeq Size:** 3141 bp

**RefSeq ORF:** 1887 bp

**Locus ID:** 163255

**UniProt ID:** [Q8NDQ6](#)

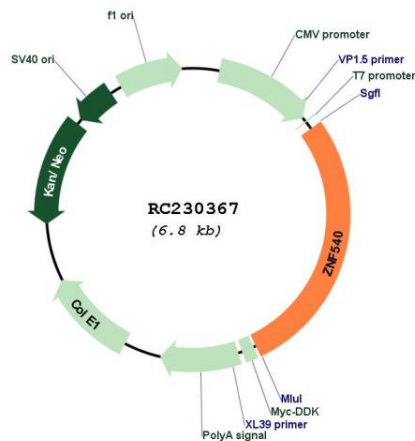
**Cytogenetics:** 19q13.12

**Protein Families:** Transcription Factors

**MW:** 73.7 kDa

**Gene Summary:** May act as a transcriptional repressor.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC230367