

## Product datasheet for **RC212079**

### ZNF93 (NM\_031218) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF93 (NM_031218) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF93
Synonyms:	HPF34; HTF34; TF34; ZNF505
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC212079 ORF sequence, **codon optimized**.  
 Due to the complexity of NM\_031218, 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**

ATGGGCCCCCTTCAGTTCGGGACGTGGCCATCGAGTTCTCTCTCGAGGAATGGCATTGCCTGGATACCG  
 CACAGAGAAATCTCTACCGAACGTTATGCTCGAAAACACAGCAACCTCGTGTCTCTGGGTATCGTCGT  
 TTCTAAGCCGGACCTTATCGCGCATTTGGAACAGGGGAAAAACCCTGACAATGAAACGACACGAGATG  
 GTGGCGAATCCGAGTGTGATTTGCTCCCACTTCGCCAAGATCTGTGGCCGAACAGAATATCAAGGATT  
 CTTTTCAGAAGGTCATCCTTCGGCGATACGAGAAAAGGGCCACGGGAATCTGCAACTGATTAACGGTG  
 CGAAAGCGTGGACGAGTCAAAAGTTCACACTGGGGCTACAATGGTCTGAACCAATGTAGCACGACCACC  
 CAAAGCAAGGTGTTCCAGTGCATAAGTACGGCAAGGTGTTTACAAGTTTTCCAACCTAAACGGCATA  
 ATATCCGGCACACCGAGAAGAAGCCATTCAAATGTATAGAATGCGGCAAGGCCTTCAACCAAGTTTAGCAC  
 ACTCATCACATAAAAAATCCACACGGGCGAGAAGCCGTATATATGTGAAGAGTGTGGCAAGGCGTTT  
 AAGTACTCAAGTCTCAATACCCACAAAAGGATACATACTGGCGAAAAACCATATAAATGTGATAAGT  
 GTGATAAGGCCTTTATCGCCTCCAGCACATTGTCAAACATGAGATTATCCACACGGGAAAGAAGCCATA  
 CAAATGCGAAGAATGCGGCAAAGCTTTAAACAGTCCAGCACCTGACAAAAACAAAGAAATTCATACT  
 GGTGAAAAACCATACAAGTGCAGGAGTGCAGTAAAGCTTTTAAACCAATCCAGTACCTTGACTAAGCATA  
 AGAAGATCCACACTGGAGAAAAACCTACGTGTGTGAAGAGTGTGGCAAGGCATTTAAATACTCTCGAAT  
 TCTCACAACACATAAGAGAATTCATACCGGCGAAAAGCCGTACAATGCAACAAATGCGGAAAGGCATTC  
 ATCGCCAGTTCTACTCTTAGCCGCCACGAATTTATTCACATGGGAAAGAAGCATTATAAATGCGAGGAGT  
 GCGGGAAGGCCTTCATATGGAGCTCTGTGCTGACAAGGCATAAGCGGGTGCACACCGGTGAAAAGCCCTA  
 TAAATGTGAGGAGTGCAGCAAAGCGTTTAAATACAGTTCTACACTTAGTAGCCATAAACGATCACATACA  
 GGAGAGAAACCGTACAAGTGCAGAAGATGCGGAAAGCCCTTCGTCGCTCATCCACTTAGCAAGCAGC  
 AGATCATCCATACAGGAAAAAGCCATAACAAGTGTGAAGAATGTGAAAAGCGTTTAAATCAGAGTAGTAG  
 CCTGACCAAGCATAAGAAAATCCATACGGGCGAGAAGCCCTATAAATGCGAAGAGTGCAGCAAGGCTTTC  
 AATCAGAGCTCCTCTGACCAAGCATAAAAAATTCATACAGGCGAGAAGCCATATAAGTGTGAGGAGT  
 GCGGAAAAGCCTTAAACCAGAGTAGCACTCTCATAAAGCATAAGAAGATCCATACACGCGAGAAACCCCTA  
 CAAGTGTGAAGAGTGCAGTAAAGCATTCCACCTGTCTACTCACCTGACCACCCATAAGATACTTCATACC  
 GCGGAGAAGCCTTATCGATGTAGGGAGTGTGGGAAAGCCTTAAATCACAGCGCAACACTTAGTAGCCATA  
 AAAAGATACACTCAGGCGAAAAGCCATACGAGTGTGATAAATGCGGAAAGCATTTCATCTCCCCTAGTTC  
 TCTGTCTCGGCATGAAATCATCCATACCGGCGAAAAACCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**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\\_031218.2](#), [NM\\_031218.3](#), [NP\\_112495.2](#)

**RefSeq Size:** 2794 bp

**RefSeq ORF:** 1863 bp

**Locus ID:** 81931

**UniProt ID:** [P35789](#)

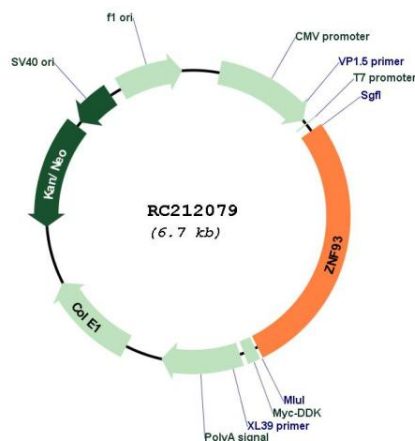
**Cytogenetics:** 19p12

**Protein Families:** Transcription Factors

**MW:** 71 kDa

**Gene Summary:** Transcription factor specifically required to repress long interspersed nuclear element 1 (L1) retrotransposons: recognizes and binds L1 sequences and repress their expression by recruiting a repressive complex containing TRIM28/KAP1 (PubMed:25274305). Not able to repress expression of all subtypes of L1 elements. Binds to the 5' end of L1PA4, L1PA5 and L1PA6 subtypes, and some L1PA3 subtypes. Does not bind to L1PA7 or older subtypes nor at the most recently evolved L1PA2 and L1Hs. 50% of L1PA3 elements have lost the ZNF93-binding site, explaining why ZNF93 is not able to repress their expression (PubMed:25274305).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC212079