

## Product datasheet for **SC314221**

### ZNF93 (NM\_031218) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF93 (NM_031218) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF93
Synonyms:	HPF34; HTF34; TF34; ZNF505
Vector:	pCMV6-Entry (PS100001)



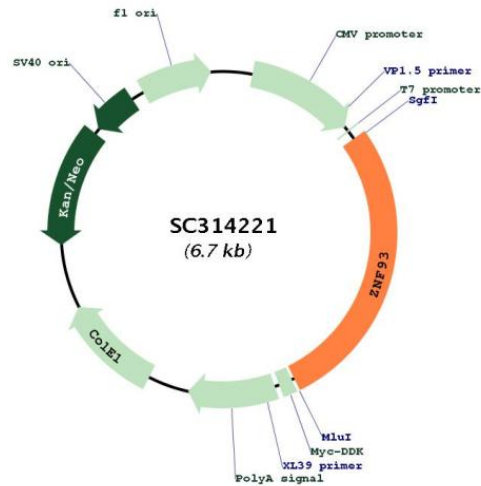
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**Fully Sequenced ORF:** >SC314221 representing NM\_031218.  
 Due to the complexity of NM\_031218, the ORF clone is codon optimized for mammalian Expression.  
 The nucleotide sequence differs from the currently listed reference sequence. .  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCCCCCTTCAGTTCGGGACGTGGCCATCGAGTTCTCTCGAGGAATGGCATTGCCTGGATACC
GCACAGAGAAATCTTACCGAACGTTATGCTCGAAAACCTACAGCAACCTCGTGTTCCTGGGTATCGTC
GTTTCTAAGCCGACCTTATCGCGCATTGGAACAGGGGAAAAAACACTGACAAATGAAACGACACGAG
ATGGTGGCGAATCCGAGTGTGATTTGCTCCCACTTCGCCAAGATCTGTGGCCGAACAGAATATCAAG
GATTCTTTTCAGAAGTCATCCTTCGGCGATACGAGAAAAGGGCCACGGGAATCTGCAACTGATTTAAA
CGGTGCGAAAAGCGTGGACGAGTCAAAGTTCACACTGGGGCTACAATGGTCTGAACCAATGTAGCAGC
ACCACCCAAAGCAAGGTGTTCCAGTGCATAAGTACGGCAAGGTGTTTCAAGTTTTCCAACCTAAC
CGCCATAATATCCGGCACACCGAGAAGAAGCCATTCAAATGTATAGAATGCGGCAAGGCCTTCAACCAG
TTTAGCACACTCATCACACATAAAAAATCCACACGGGCGAGAAGCCGTATATATGTGAAGAGTGTGGC
AAGGCGTTAAGTACTCAAGTGCTCTCAATACCCACAAAAGGATACATACTGGCGAAAAACCATATAAA
TGTGATAAGTGTGATAAAGCCTTATCGCTCCAGCACATTGTCAAAACATGAGATTATCCACACGGGA
AAGAAGCCATACAAATGCGAAGAATGCGGCAAAGCTTTTAAACAGTCCAGCACCTTGACAAAACACAAG
AAAATTCATACTGGTAAAAACCATACAAGTGCAGGAGTGGGTAAGCTTTTAAACCAATCCAGTACC
TTGACTAAGCATAAGAAGATCCACACTGGAGAAAAACCTACGTGTGTAAGAGTGTGGCAAGGCATTT
AAATACTCTCGAATTCTACAACACATAAGAGAATTCATACCGGCGAAAAGCCGTACAAATGCAACAAA
TGCAGAAAAGGCATTCATCGCCAGTCTACTCTTAGCCGCCACGAATTTATTACATGGGAAAGAAGCAT
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ACCGGTGAAAAGCCCTATAAATGTGAGGAGTGCAGGCAAAGCGTTTAAATACAGTTCTACACTTAGTAGC
CATAAACGATCACATACAGGAGAGAAACCGTACAAGTGCAGAAATGCGGAAAGCCTTCGTGCGCTCA
TCCACTTTAGCAAGCACGAGATCATCCATACAGGAAAAAGCCATACAAGTGTGAAGAATGTGGAAAA
GCGTTTAAATCAGAGTAGTAGCCTGACCAAGCATAAGAAAATCCATACGGGCGAGAAGCCCTATAAATGC
GAAGAGTGCAGCAAGGCTTTCAATCAGAGCTCCTCTGACCAAGCATAAAAAAATTCATACAGGCGAG
AAGCCATATAAGTGTGAGGAGTGCAGAAAAGCCTTTAACCAGAGTAGCACTCTCATAAAGCATAAGAAG
ATCCATACACGCGAGAAACCTACAAGTGTGAAGAGTGGGTAAGCATTCCACCTGTCTACTCACCTG
ACCACCCATAAGATACTTCATACCGGCGAGAAGCCTTATCGATGTAGGGAGTGTGGGAAGGCCTTAAAT
CACAGCGCAACACTTAGTAGCCATAAAAAGATACACTCAGGCGAAAAGCCATACGAGTGTGATAAATGC
GGGAAAGCATTCTCCCTAGTTCTCTGCTCGGCATGAAATCATCCATACCGGCGAAAAGCCGTAG
```

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_031218

**Insert Size:** 1863 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_031218.2](#)

**RefSeq Size:** 2113 bp

**RefSeq ORF:** 1863 bp

**Locus ID:** 81931

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

**Cytogenetics:** 19p12

<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	71 kDa
<b>Gene Summary:</b>	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]