OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG212079

ZNF93 (NM_031218) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF93 (NM_031218) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF93
Synonyms:	HPF34; HTF34; TF34; ZNF505
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG212079 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCCCCCTTCAGTTCCGGGACGTGGCCATCGAGTTCTCTCTCGAGGAATGGCATTGCCTGGATACCG
CACAGAGAAATCTCTACCGGAACGTTATGCTCGAAAACTACAGCAACCTCGTGTTCCTGGGTATCGTCGT
TTCTAAGCCGGACCTTATCGCGCATTTGGAACAGGGGAAAAAACCACTGACAATGAAACGACACGAGATG
GTGGCGAATCCGAGTGTGATTTGCTCCCACTTCGCCCAAGATCTGTGGCCCGAACAGAATATCAAGGATT
CTTTTCAGAAGGTCATCCTTCGGCGATACGAGAAAAGGGGCCACGGGAATCTGCAACTGATTAAACGGTG
CGAAAGCGTGGACGAGTGCAAAGTTCACACTGGGGGCTACAATGGTCTGAACCAATGTAGCACGACCACC
CAAAGCAAGGTGTTCCAGTGCGATAAGTACGGCAAGGTGTTTCACAAGTTTTCCAACTCTAACCGCCATA
ATATCCGGCACACCGAGAAGAAGCCATTCAAATGTATAGAATGCGGCAAGGCCTTCAACCAGTTTAGCAC
ACTCATCACACATAAAAAAATCCACACGGGCGAGAAGCCGTATATATGTGAAGAGTGTGGCAAGGCGTTT
AAGTACTCAAGTGCTCTCAATACCCACAAAAGGATACATACTGGCGAAAAACCATATAAATGTGATAAGT
GTGATAAGGCCTTTATCGCCTCCAGCACATTGTCAAAACATGAGATTATCCACACGGGAAAGAAGCCATA
CAAATGCGAAGAATGCGGCAAAGCTTTTAACCAGTCCAGCACCCTGACAAAACACAAGAAAATTCATACT
GGTGAAAAACCATACAAGTGCGAGGAGTGCGGTAAAGCTTTTAACCAATCCAGTACCTTGACTAAGCATA
AGAAGATCCACACTGGAGAAAAACCCTACGTGTGTGAAGAGTGTGGCAAGGCATTTAAATACTCTCGAAT
TCTCACAACACATAAGAGAATTCATACCGGCGAAAAGCCGTACAAATGCAACAAATGCGGAAAGGCATTC
ATCGCCAGTTCTACTCTTAGCCGCCACGAATTTATTCACATGGGAAAGAAGCATTATAAATGCGAGGAGT
GCGGGAAGGCCTTCATATGGAGCTCTGTGCTGACAAGGCATAAGCGGGTGCACACCGGTGAAAAGCCCTA
TAAATGTGAGGAGTGCGGCAAAGCGTTTAAATACAGTTCTACACTTAGTAGCCATAAACGATCACATACA
GGAGAGAAACCGTACAAGTGCGAAGAATGCGGGAAAGCCTTCGTCGCCTCATCCACTCTTAGCAAGCACG
AGATCATCCATACAGGAAAAAAGCCATACAAGTGTGAAGAATGTGGAAAAGCGTTTAATCAGAGTAGTAG
CCTGACCAAGCATAAGAAAATCCATACGGGCGAGAAGCCCTATAAATGCGAAGAGTGCGGCAAGGCTTTC
AATCAGAGCTCCTCTCTGACCAAGCATAAAAAAATTCATACAGGCGAGAAGCCATATAAGTGTGAGGAGT
GCGGAAAAGCCTTTAACCAGAGTAGCACTCTCATAAAGCATAAGAAGATCCATACACGCGAGAAACCCTA
CAAGTGTGAAGAGTGCGGTAAAGCATTCCACCTGTCTACTCACCTGACCACCCATAAGATACTTCATACC
GGCGAGAAGCCTTATCGATGTAGGGAGTGTGGGAAGGCCTTTAATCACAGCGCAACACTTAGTAGCCATA
AAAAGATACACTCAGGCGAAAAGCCATACGAGTGTGATAAATGCGGGAAAGCATTCATCTCCCCTAGTTC
TCTGTCTCGGCATGAAATCATCCATACCGGCGAAAAACCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

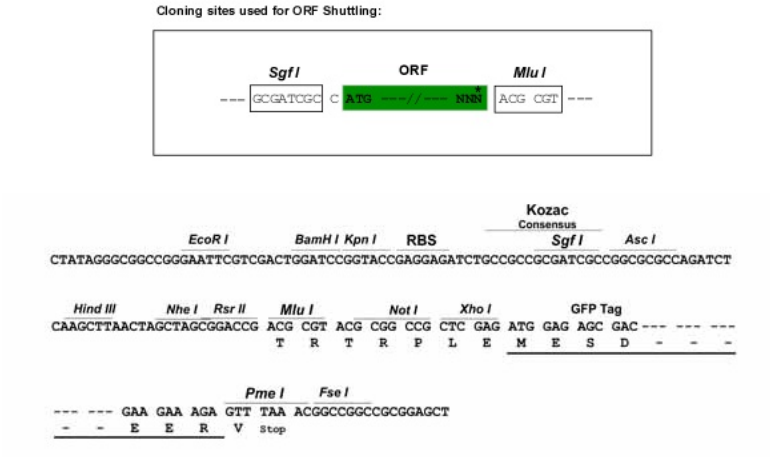
>RG212079 representing NM_031218
Red=Cloning site Green=Tags(s)

MGPLQFRDVAIEFSLEEWHCLDTAQRNLYRNVMLENYSNLVFLGIVVSKPDLIAHLEQGKKPLTMKRHEM
VANPSVICSHFAQDLWPEQNIKDSFQKVILRRYEKRGHGNLQLIKRCESVDECKVHTGGYNGLNQCSTTT
QSKVFQCDKYGKVFHKFSNSNRHNIRHTEKKPFKCIECGKAFNQFSTLITHKKIHTGEKPYICEECGKAF
KYSSALNTHKRIHTGEKPYKCDKCDKAFIASSTLSKHEIIHTGKKPYKCEECGKAFNQSSTLTKHKKIHT
GEKPYKCEECGKAFNQSSTLTKHKKIHTGEKPYVCEECGKAFKYSRILTTHKRIHTGEKPYKCNKCGKAF
IASSTLSRHEFIHMGKKHYKCEECGKAFIWSSVLTRHKRVHTGEKPYKCEECGKAFKYSSTLSSHKRSHT
GEKPYKCEECGKAFVASSTLSKHEIIHTGKKPYKCEECGKAFNQSSSLTKHKKIHTGEKPYKCEECGKAF
NQSSSLTKHKKIHTGEKPYKCEECGKAFNQSSTLIKHKKIHTREKPYKCEECGKAFHLSTHLTTHKILHT
GEKPYRCRECGKAFNHSATLSSHKKIHSGEKPYECDKCGKAFISPSSLSRHEIIHTGEKP

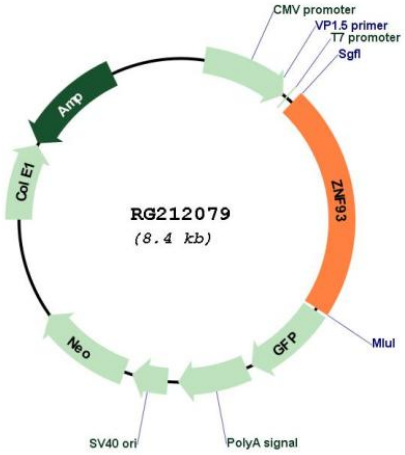
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_031218
ORF Size:	1860 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_031218.2, NP_112495.2
RefSeq Size:	2794 bp
RefSeq ORF:	1863 bp

Locus ID:	81931
UniProt ID:	P35789
Cytogenetics:	19p12
Protein Families:	Transcription Factors
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]