

Product datasheet for **RG216979**

ZNF493 (NM_175910) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF493
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216979 ORF sequence, **codon optimized**.
Due to the complexity of NM_175910, 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**CGCATCGCC**

ATGAACGAGTGTAACTCCACAAGGAAGGCTACAACGAGCTGAATCAATACTTGACTACCAACCCAGTCAA
AGATATTTTCAGTGCATATAATATGTTAAAGTTTTTCATAAGCTTCTCAACAGTAACAGGCACAATACAAA
ACATACCGGAAGAAGCCATTCAAATGTAAAAATGTGAAAGAGCTTTTGTATGCTTCTCCACCTGTGC
CAACACAAGCGAATCCACATTCGCGAAAACCTCTACAGATGCGAGGAGTGTGGCAAGGCCTTTATCTGGT
TTTCAACATTGACCCGGCACCGCAGGGTGCACACCGGTGAAAAGTCTTACAAGTACGAGTGCAGCAATC
ATTCATCAGGACAGTAATTTGACTACTCACAACGGATACATACAGGCCAGAAACCTTATAAGTGTGAG
GAATGCGGCACATCTTTTACCAGTTCAGTTATCTCACGCGGCATAAGTTGATCCACACGCGAGAAAAAC
CATATAATGTGAGCAGTATGGAAAGACCTTCAACAGTCTCCACTCTGACCGGCCACAAGATCATCCA
CAATGGGGAAAAACCTACAAATGCGAAGAATGTGAAAGGCCTTTTCAATTTTTCTACACCCACTAAG
CATAAGATTATTCACACCGAGGAGAAGTCTCATCGCTGCGAGGAGTATTGCAAGGCCTATAAAGAGAGCA
GTCACCTTACCACTCACAAGCGCATTACACCGGAGAAAAAGCCTTACAAATGTGAAGAGTGCAGGAAAGGC
TTTTTCCATTTTTCTACCCTGACCAACATAAGATTATTCACACAGAGGAGAAGAGTACAGGTGTGAG
GAATGTGGAAGCATATAAGGAGTCTTCTACCTGACTACCCATAAGAGAATACATACAGGAGAAAAAC
CATACAAATGCGAGGAATGTGGGAAAACTTTTAGCGTTTTTTCTATTTTGACCAAGCATAAGATAATCCA
TACAGAGGAAAAAGCCATATAAGTGTGAGGAGTGCAGGAAAAGCTTTCAAAAGGTCAAGCACTGACAAAA
CACCGCATATCCACACTGAGGAGAAGCCCTATAAATGCGAGGAGTGCAGCAAGGCCTTCAATCAGTCAT
CCACCTCTCCATCCACAAGATCATCCACACTGGGAAAAAGCCTTATAAGTGCAAGAGTGTGGAAGGC
ATTCAAGAGATCCAGCACCTGACTATCCACAAGATGATCCACACTGGCGAGAAACCTTATAAGTGCAGAA
GAGTGTGGCAAGGCGTTAATAGATCTCTCACCTGACTACCCACAAGCGAATCCATACTGGCCACAAAC
CCTATAAATGCAAGAGTGCAGTAAATCCTTTTCTGTCTTTAGCACGCTGACTAAGCATAAAATCATCCA
CACTGACAAAAACCTTATAAGTGCAGGAGTGCAGGAAAAGCTTTTAACCGATCTTCCATACTGTCCATC
CACAAGAAATACACACAGGAGAGAAGCCTTATAAGTGCAGGAATGCGGCAAGGCGTTCAAGAGGAGCT
CACATTTGGCCGACACAAGCAGATCCATTCACTGCAGAAAGCGGTACAAATGCGAGGAGTGTGGCAAGGC
ATTTTCTATTTTTTCAACGTTGACCAAAACAAAAATCATACACTGAAGAGAAGCCCTACAAGTGTGAG
AAGTGCAGGAAAAATTTCTATCGTTTCAGTAACCTGAACACCCATAAGATCATTATACGGGGGAGAAAC
CCTGCAAAATGCGAGGAATGTGGCAAAAGCCTTTAACCACTCATCTAACCTTATCAAGCACAAGCTCATTCA
CACAGGAGACAAGCCATACAAGTGCAGGCTTGCAGGAAAAGCCTTCCGGCGGAGCTCACATCTCAGTAGA
CATAAAATCATCCATATCGGTATTCATACTGAGGAGACAGTGCAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

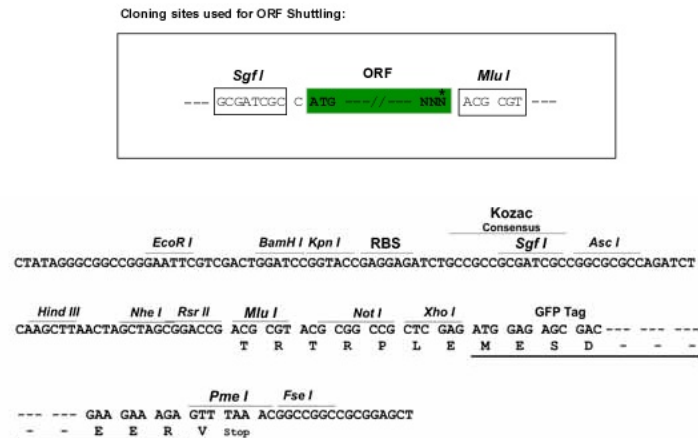
Protein Sequence: >RG216979 representing NM_175910
Red=Cloning site Green=Tags(s)

MNECNVHKEGYNELNQYLTTTQSKIFQCDKYVKVFHKLNSNRHNTKHTGKKPFKCKKCGKSFCMLLHLC
QHKRIHIRENSYRCEECGKAFIWFSTLTRHRRVHTGEKSYKECGKSFNQDNLTHKRIHTGQKPYKCE
ECGTSFYQFSYLTRHKLHITREKPYKCEQYGKTFNQSSLTGHKIIHNKEKPYKCEECGKAFFSIFSTPTK
HKIITEEKSHRCEEYCKAYKESSLTHKRIHTGEKPYKCEECGKAFFSIFSTLTKHKIITEEKSHRCE
ECGKAYKESSLTHKRIHTGEKPYKCEECGKTFSVFSILTCHKIITEEKPYKCEECGKAFFRSSTLT
HRIITEEKPYKCEECGKAFFNQSSLSIHKIITEKPYKCEECGKAFFRSSTLIHKMIHTGEKPYKCE
ECGKAFFNRSSHLTHKRIHTGHKPYKCECGKSFVFSSTLTKHKIHTDKPYKCEECGKAFFNRSSILSI
HKKIHTGEKPYKCEECGKAFFRSLLAGHKQIHSVQKPYKCEECGKAFFSIFSTLTKHKIITEEKPYKCE
KCGKTFYRFSNLNTHKIIHTGEKPKCEECGKAFFNHSSNLIKHKLHTGDKPYKCEACGKAFFRSSLSLR
HKIITHIGIHTTEETVQK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175910

ORF Size: 1938 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).

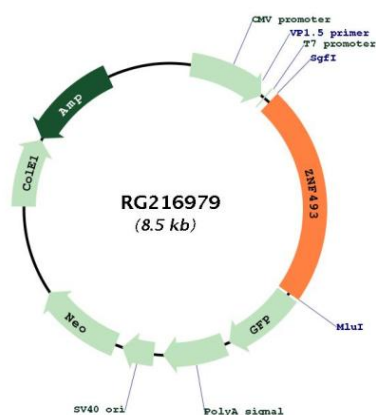
Reconstitution Method:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_175910.4](#), [NP_787106.3](#)

RefSeq Size:	4732 bp
RefSeq ORF:	1941 bp
Locus ID:	284443
UniProt ID:	Q6ZR52
Cytogenetics:	19p12
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG216979