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# Product datasheet for RC216979

## ZNF493 (NM_175910) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ZNF493 (NM_175910) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | ZNF493 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |



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**ORF Nucleotide Sequence:**

>RC216979 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACGAGTGTAACGTCCACAAGGAAGGCTACAACGAGCTGAATCAATACTTGACTACCACCCAGTCAA
AGATATTTCAGTGCGATAAATATGTTAAAGTTTTTCATAAGCTTCTCAACAGTAACAGGCACAATACAAA
ACATACCGGGAAGAAGCCATTCAAATGTAAAAAATGTGGAAAGAGCTTTTGTATGCTTCTCCACCTGTGC
CAACACAAGCGAATCCACATTCGCGAAAACTCCTACAGATGCGAGGAGTGTGGCAAGGCCTTTATCTGGT
TTTCAACATTGACCCGGCACCGCAGGGTGCACACCGGTGAAAAGTCTTACAAGTACGAGTGCGGCAAATC
ATTCAATCAGGACAGTAATTTGACTACTCACAAACGGATACATACAGGCCAGAAACCCTATAAGTGTGAG
GAATGCGGCACATCTTTTTACCAGTTCAGTTATCTCACGCGGCATAAGTTGATCCACACGCGAGAAAAAC
CATATAAATGTGAGCAGTATGGAAAGACCTTCAACCAGTCCTCCACTCTGACCGGCCACAAGATCATCCA
CAATGGGGAAAAACCCTACAAATGCGAAGAATGTGGAAAGGCCTTTTCAATTTTTTCTACACCCACTAAG
CATAAGATTATTCACACCGAGGAGAAGTCTCATCGCTGCGAGGAGTATTGCAAGGCCTATAAAGAGAGCA
GTCACCTTACCACTCACAAGCGCATTCACACCGGAGAAAAGCCTTACAAATGTGAAGAGTGCGGGAAGGC
TTTTTCCATTTTTTCTACCCTGACCAAACATAAGATTATTCACACAGAGGAGAAGAGTCACAGGTGTGAG
GAATGTGGAAAAGCATATAAGGAGTCTTCTCACCTGACTACCCATAAGAGAATACATACAGGAGAAAAAC
CATACAAATGCGAGGAATGTGGGAAAACTTTTAGCGTTTTTTCTATTTTGACCAAGCATAAGATAATCCA
TACAGAGGAAAAGCCATATAAGTGTGAGGAGTGCGGAAAAGCTTTCAAAAGGTCAAGCACACTGACAAAA
CACCGCATAATCCACACTGAGGAGAAGCCCTATAAATGCGAGGAGTGCGGCAAGGCCTTCAATCAGTCAT
CCACCCTCTCCATCCACAAGATCATCCACACTGGGGAAAAGCCTTATAAGTGCGAAGAGTGTGGAAAGGC
ATTCAAGAGATCCAGCACCCTGACTATCCACAAGATGATCCACACTGGCGAGAAACCCTATAAGTGCGAA
GAGTGTGGCAAGGCGTTTAATAGATCCTCTCACCTGACTACCCACAAGCGAATCCATACTGGCCACAAAC
CCTATAAATGCAAAGAGTGCGGTAAATCCTTTTCTGTCTTTAGCACGCTGACTAAGCATAAAATCATCCA
CACTGACAAAAAACCCTATAAGTGCGAGGAGTGCGGAAAAGCTTTTAACCGATCTTCCATACTGTCCATC
CACAAGAAAATACACACAGGAGAGAAGCCTTATAAGTGCGAGGAATGCGGCAAGGCGTTCAAGAGGAGCT
CACATTTGGCCGGACACAAGCAGATCCATTCAGTGCAGAAGCCGTACAAATGCGAGGAGTGTGGCAAGGC
ATTTTCTATTTTTTCAACGTTGACCAAACACAAAATCATACACACTGAAGAGAAGCCCTACAAGTGTGAG
AAGTGCGGGAAAACATTCTATCGGTTCAGTAACCTGAACACCCATAAGATCATTCATACGGGGGAGAAAC
CCTGCAAATGCGAGGAATGTGGCAAAGCGTTTAACCACTCATCTAACCTTATCAAGCACAAGCTCATTCA
CACAGGAGACAAGCCATACAAGTGCGAAGCTTGCGGAAAAGCCTTCCGGCGGAGCTCACATCTCAGTAGA
CATAAAATCATCCATATCGGTATTCATACTGAGGAGACAGTGCAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

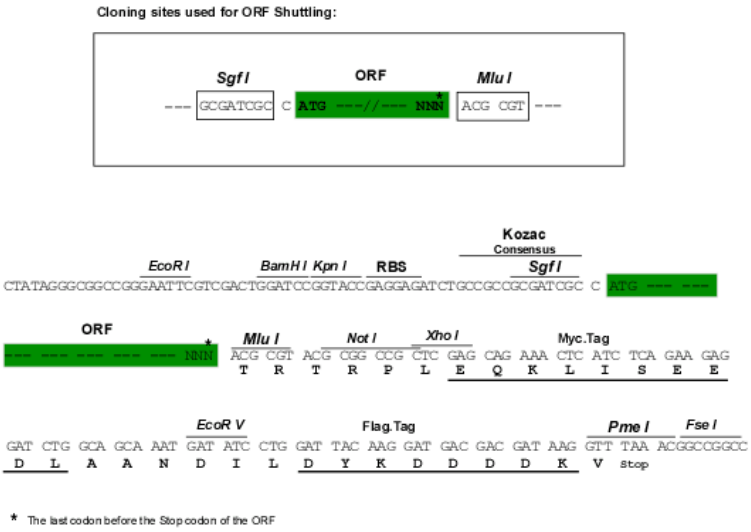
>RC216979 representing NM_175910
Red=Cloning site Green=Tags(s)

MNECNVHKEGYNELNQYLTTTQSKIFQCDKYVKVFHKLLNSNRHNTKHTGKKPFKCKKCGKSFCMLLHLC
QHKRIHIRENSYRCEECGKAFIWFSTLTRHRRVHTGEKSYKYECGKSFNQDSNLTTHKRIHTGQKPYKCE
ECGTSFYQFSYLTRHKLIHTREKPYKCEQYGKTFNQSSTLTGHKIIHNGEKPYKCEECGKAFSIFSTPTK
HKIIHTEEKSHRCEEYCKAYKESSHLTTHKRIHTGEKPYKCEECGKAFSIFSTLTKHKIIHTEEKSHRCE
ECGKAYKESSHLTTHKRIHTGEKPYKCEECGKTFSVFSILTKHKIIHTEEKPYKCEECGKAFKRSSTLTK
HRIIHTEEKPYKCEECGKAFNQSSTLSIHKIIHTGEKPYKCEECGKAFKRSSTLTIHKMIHTGEKPYKCE
ECGKAFNRSSHLTTHKRIHTGHKPYKCKECGKSFSVFSTLTKHKIIHTDKKPYKCEECGKAFNRSSILSI
HKKIHTGEKPYKCEECGKAFKRSSHLAGHKQIHSVQKPYKCEECGKAFSIFSTLTKHKIIHTEEKPYKCE
KCGKTFYRFSNLNTHKIIHTGEKPCKCEECGKAFNHSSNLIKHKLIHTGDKPYKCEACGKAFRRSSHLSR
HKIIHIGIHTEETVQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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.

**RefSeq:** NM_175910.4, NM_175910.5, NM_175910.6, NP_787106.3

**RefSeq Size:** 4732 bp

**RefSeq ORF:** 1941 bp

**Locus ID:** 284443

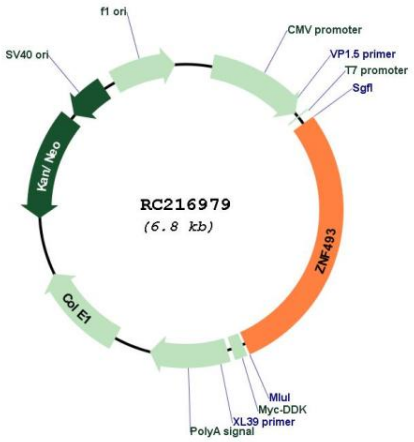
**UniProt ID:** Q6ZR52

**Cytogenetics:** 19p12

**MW:** 75.3 kDa

**Gene Summary:** May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

## Product images:




Circular map for RC216979