

Product datasheet for **RC210948**

ZNF491 (NM_152356) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF491 (NM_152356) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF491
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210948 ORF sequence, **codon optimized**.
Due to the complexity of NM_152356, 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCGAGCGGCTGTTT**GAGAGCGCCGAGGGAGCCAGTGCGGGCAAAC**TTT**CACACAGGTGCCAGAGG**
 ACATGCTGAACAAGAAGACTGCCAGGAGT**GAAATCCTGCGAATCTGGCACCTGCGGCGAAATCTTCAT**
 GGGATACTCAAGCTTCAACAGAAACATTAGAACCGATACCGGTCACCAGCCTCACAAGTGCAGAAATTT
 CTGGAGAAGCCCTATAAACATAAACAGCGCCGAAAGGCCCTGTCTCACAGTCACTGTTTTAGGACCCATG
 AACGACCCACACAGAGAGAAAAGCCCTTCGACTGTAAGGAGTGGAGAGAAATCATTATCTACCAGCGTC
 CATAAGGCGGTACATGGTAACCCATTCTGGCGACGGACCTTACAAGTGTAAAGTTTTGCGGGAAAAGCGTTG
 GATTGCCTGTCCCTCTATCTCACTCACGAAAGAACTCATACCGGCGAAAAACGCTACGAATGCAAGCAAT
 GTGGGAAGGCGTTTAGTTGGCACTCTTCAGTGAGAATACATGAGAGAACCCATACCGGAGAAAAGCCCTTA
 CGAGTGTAAAGAGTGGGAAAGTCTTTTAAATTT**CAGCAGCTCCTTCCGGCGGCACGAGAGGACTCATACG**
 GGAGAGAAAGCCTTACAAGTGCAAAGATGCGGTAAGGCATTCAACTGCCCCAGCAGCTTTCATAGGCATG
 AGCGGACCCACACTGGCGAGAAGCCTTATGAGTGCAAGTTGTATGAAAGGCCCTCTCTCGACTGATCTC
 ATTCAGACGACATATGAGAATGCATACAGGCGAAAGGCCCAAGTGTAAAATCTGTGGCAAAGCATT
 TACAGCCCTTCCAGCTTTCAAAGGCACGAGCGCAGT**CACACGGGAGAAAAGCCATACAAATGTAAGCAGT**
 GTGGCAAAGCGTTCACCTGTAGCACAAAGCTTT**CAGTATCACGAGCGCACTCACACAGGGGAAAAGCCGA**
 CGGGTGTAAACAATGCGGGAAGGCTTT**CAGGAGCGCAAATATATAAGAATACATGGACGGACCCATACG**
 GGAGAGAAACCCTATGAGTGTAAAGCAGTGGGTAAGCGTTCCATTGCGTATCAAGTTTT**CATAGACATG**
 AGCGCACTCACGAGGTGAGAAACCCTACGAATGTAAAGCACTGTGGTAAAGCGTTTACCTGTTCCATCTA
 TATCAGAATTCAGAGCGAATTCATACAGGGGAGAAACCATACCAGT**GCAAAGAATGCGGAAAGGCATT**
 ATCAGAAGCTCTTATTGCCGAAAACACGAGCGGACACACAATCAATATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210948 representing NM_152356
 Red=Cloning site Green=Tags(s)

MGERLFESAEGSQCGETFQVPEDMLNKKTLPGVKSCESGTCGEIFMGYSSFNRNIRTDTHGHPHKCQKF
 LEKPYKHKQRRKALSHSHCFRTHERPHTREKPFDCKECEKSFISPASIRRYMVTHSGDGPYKCKFCGKAL
 DCLSLYLTHERTHTGEKRYECKQCGKAFSWHSSVRIHERTHTGEKPYECKCGKSFNFSSFRRHERTHT
 GEKPYKCKEKGAFNCPSSFHRHERTHTGEKPYECKLYGKALSRILSFRHRMRMHTGERPHKCKICGKAF
 YSPSSFQRHERSHTGEKPYKCKQCGKAFTCSTSFQYHERTHTGEKPDGCKQCGKAFRSAKYIRIHGRHTHT
 GEKPYECKQCGKAFFHCVSSFHRHERTHAGEKPYECKHCGKAFTCSIYIRIHERIHTGEKPYQCKECKGKAF
 IRSSYCRKHERTHTINI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_152356

ORF Size: 1311 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_152356.2](#), [NM_152356.3](#), [NP_689569.2](#)

RefSeq Size: 2888 bp

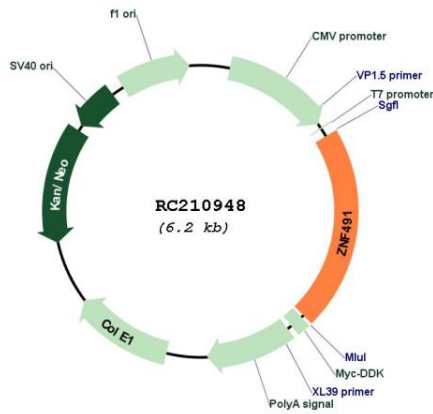
RefSeq ORF: 1314 bp

Locus ID: 126069

UniProt ID: [Q8N8L2](#)

Cytogenetics: 19p13.2
Domains: zf-C2H2
Protein Families: Transcription Factors
MW: 50.9 kDa
Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC210948