

Product datasheet for **RG210948**

ZNF491 (NM_152356) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF491 (NM_152356) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF491
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210948 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGGCGAGCGGCTGTTT**GAGAGCGCCGAGGGGAGCCAGTGCGGGCAAAC**TTT**CACACAGGTGCCAGAGG**
ACATGCTGAACAAGAAGACACTGCCAGGAGTGAATCCTGCGAATCTGGCACCTGCGGCGAAATCTTCAT
GGGATACTCAAGCTTCAACAGAAACATTAGAACCGATACCGGTCACCAGCCTCACAAGTGCAGAAATTT
 CTGGAGAAGCCCTATAAACATAAACAGCGCCGAAAGGCCCTGTCTCACAGTCACTGTTTTAGGACCCATG
 AACGACCCACACAGAGAGAAAAGCCCTTCGACTGTAAGGAGTGGCAGAGAAATCATTATCTCACAGCGTC
 CATAAGGCGGTACATGGTAACCCATTCTGGCGACGGACCTTACAAGTGTAAAGTTTTGCGGGAAAAGCGTTG
 GATTGCCTGTCCCTCTATCTCACTCACGAAAGAACTCATACCGGCGAAAAACGCTACGAATGCAAGCAAT
 GTGGGAAGGCGTTTAGTTGGCACTCTTCAGTGAGAATACATGAGAGAACCATACCGGAGAAAAGCCTTA
 CGAGTGTAAAGAGTGGGAAAGTCTTTTAAATTT**CAGCAGCTCCTTCCGGCGGCACGAGAGGACTC**ATACG
 GGAGAGAAGCCTTACAAGTGCAAAGAAATGCGGTAAGGCATTCAACTGCCCCAGCAGCTTTCATAGGCATG
 AGCGGACCCACACTGGCGAGAAGCCTTATGAGTGCAAGTTGTATGGAAAGGCCCTCTCTCGACTGATCTC
 ATTCAGACGCACATATGAGAATGCATACAGGCGAAAGGCCCAAGTGTAAAATCTGTGGCAAAGCATT
 TACAGCCCTTCCAGCTTTCAAAGGCACGAGCGCAGTCACACGGGAGAAAAGCCATACAAAATGTAAGCAGT
 GTGGCAAAGCGTTACCTGTAGCACAAGCTTTT**CAGTATCACGAGCGCACTCACACAGGGGAAAAGCCGA**
 CGGGTGTAAACAATGCGGGAAGGCTTT**CAGGAGCGCAAATATATAAGAATACATGGACGGACCCATACG**
 GGAGAGAAACCCTATGAGTGTAAAGCAGTGCAGTAAAGCGTTCCATTGCGTATCAAGTTTT**CATAGACATG**
 AGCGCACTCACGAGGTGAGAAACCCTACGAATGTAAAGCACTGTGGTAAAGCGTTTACCTGTTCCATCTA
 TATCAGAATTCAGAGCGAATTCATACAGGGGAGAAACCATACCAAGTCAAAGAATGCGGAAAGGCATT
 ATCAGAAGCTCTTATTGCCGCAAACACGAGCGGACACACAATCAATATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210948 representing NM_152356
 Red=Cloning site Green=Tags(s)

MGERLFESAEGSQCGETFQVPEDMLNKKTLPGVKSCESGTCGEIFMGYSSFNRNIRTDTHGHQPHKCQKF
 LEKPYKHKQRRKALSHSHCFRTPHPTREKPFDCKECEKSFISPASIRRYMVTHSGDGPYKCKFCGKAL
 DCLSLYLTHERTHTGEKRYECKQCGKAFSWHSSVRIHERHTHTGEKPYECKECGKSFNFSSSFRRHERHTHT
 GEKPYKCKECGKAFNCPSSFHRHERHTHTGEKPYECKLYGKALSRLISFRRHMRMHTGERPHKCKICGKAF
 YSPSSFQRHERSHTGEKPYKCKQCGKAFTCSTSFQYHERHTHTGEKPDGCKQCGKAFRSAKYIRIHRHTHT
 GEKPYECKQCGKAFHCVSSFHRHERTHAGEKPYECKHCGKAFTCSIYIRIHERIHTGEKPYQCKECKGKAF
 IRSSYCRKHERTHTINI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

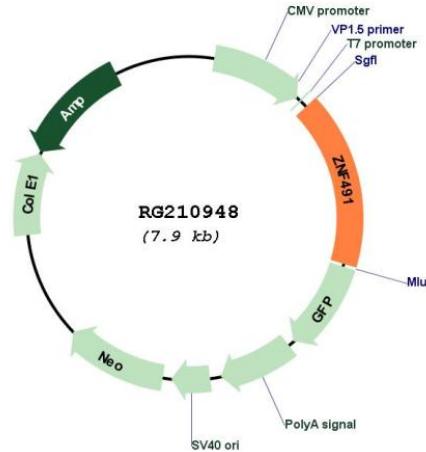
Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
 T R T R P L E M E S D - - -

 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:


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_152356.3](#), [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

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