

Product datasheet for **RG226990**

ZNF181 (NM_001145665) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF181 (NM_001145665) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF181
Synonyms:	HHZ181
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226990 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001145665, 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTCAGGTAAC**TTTCAACGATGTTGCCATAGATTTTACGCATGAAGAATGGGGCTGGCTGTCTAGTG**
CACAGAGGGACCTTTACAAGGACGTGATGGTCCAGAATTACGAGAACCTTGTTTCAGTAGGCCTGTCAGT
CACCAAGCCATACGTGATCACGCTTCTTGAAGATGGCAAAGAACCATGGATGATGGAGAAGAAGCTTTCT
AAAGGCATGATCCCCGATTGGGAAAGCCGGTGGGAGAACAAGAAGCTTTCCACCAAGAAAGATAACTACG
ATGAAGATTCTCCCCAGACTGTTATTATTGAGAAGGTGGTGAACAGAGTTACGAGTTTTCTAATAGCAA
GAAAAACTTGAATATATCGAGAAGTTGGAAGGGAAGCACGGATCTCAAGTGGACCATTTTAGACCTGCA
ATTCTTACCTCCAGGGAGTCACCCACTGCCGATTCAAGTGTACAAAATAACATCTTCCGCTCCACATTCC
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GAAAAAGAACCTCCCTAAGAAGAGTGTGATTAACGAAAGGTCACCGCGGCAAGAAGTTGCTGAAT
AGCAATAAGTCTGGTGCCGCTTACGCCAAGGTAAGTCTTGACACTGCCACAGACCTGCAATCGGGAAA
AAATCTACACCTGTAGCGAATGTGGAAGGCGTTGGCAAGCAGAGCATTCTGAATCGACATTGGCGAAT
TCACACAGGAGAGAAGCCCTACGAATGCAGAGAGTGCAGGCAAGACGTTCCAGCCACGGGAGCTCACTGACC
AGGCACCTCATCAGTCACAGCGGAGAGAAGCCGTATAAGTGCATCGAATGTGGCAAGGCCTTTTCCACG
TGAGCTCACTGACTAACCACAAAGTACGCACACCGGGGAAAAACCTTATGAATGTATGAATTGCGGCAA
ATCTTTCTCCGCGTTTTACATCTGATAGAGCACCTGCGAATCCACACCCAGGAAAAGCTGTACGAGTGT
CGAATCTGTGGTAAGGCCTTTATCCACCGCTCATCACTGATTCACCACCAGAAGATCCATACTGGAGAGA
AACCGTACGAGTGCAGAGAATGCGGGAAGGCTTTTGTGCTCCAGTACCTCACGCGGCACCAACGCAT
TCACACAATGGAAAAACAGTATGAGTGTAAATAAGTGTCTGAAAGTGTCTCTTCCCTCTCTTTTTTGGTG
CAACACCAGAGTATCCACACAGAAGAAAAGCCCTTTGAGTGCCAGAAGTGTGAAAGAGTTTCAACCAAC
TGGAGTCCCTCAACATGCATCTGAGAAATCATATTAGGTTGAAACCATATGAATGTTCAATTTGTGGGAA
AGCCTTTAGCCATCGGAGTTCACCTCCAGCACCAAGTCCATACAGGGGAAAAGCCATATGAATGC
ATCAAATGCGGGAAAACATTCTCCTGCTCATCCAACTTGACTGTGCACCAGCGCATACACACCGGCGAAA
AGCCATACAAGTGAACGAATGTGGAAAAGCTTTTAGTAAAGGATCTAACCTGACAGCTCACCAGAGGGT
TCACAATGGCGAGAAGCCTAATCCGTGGTCAGTGTGCAAAAACCACTGGACTACATGAACCACTATACT
TGTGAGAAAAGCTACCGGAGGGAGACAGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226990 representing NM_001145665
 Red=Cloning site Green=Tags(s)

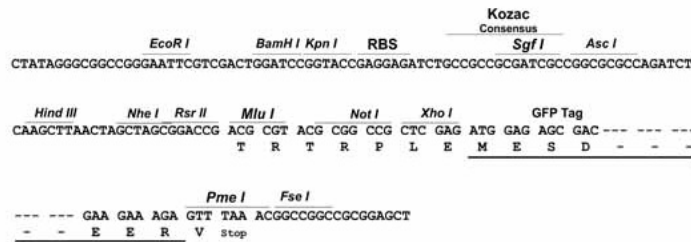
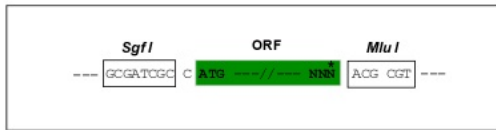
MPQVTFNDVAIDFTHEEWGWLSSAQRDL YKDV MVQNYENLVSVGLSVTKPYVITLLEDGKEP WMEKKLS
 KGMIPDWESRWENKELSTKKDNYDEDSPTVII EKVVVQSYEF SNSKKNLEYIEKLE GKHG SQVDHFRPA
 ILTSRESPTADSVYKYNIFRSTFHSKSTLSE PQKISAEGNSHKYDILKKNLPKKS VIKNEKVNGGKLLN
 SNKSGAAF SQGKSLTLPQTCNREKIYTCSECGKAF GKQSI LNRHWRIHTGEKPYECRECGKTF SHGSSLT
 RHLSHSGEKPYKCI ECGKAFSHVSSLTNHQSTHTGEKPYECMNCGKSF SRVSHL IEHLRIHTQEKL YEC
 RICGKAFIHRSSLIHHQKIHTGEKPYECRECGKAFCCSSHLTRHQRIHTMEKQYECNKCLKV FSSLSFLV
 QHQSIHTEEKPFECQKCRKSFNQLESLNMHLRNH IRLKPYECSICGKAFSHRSSLLQHHR IHTGEKPYEC
 IKCGKTFSCSSNLT VHQR IHTGEKPYKNECGKAF SKGSNLTAHQRVHNGEKPNSVVSVEKPLDYMNHYT
 CEKSYRRETV

TRTRPLE - GFP Tag - V

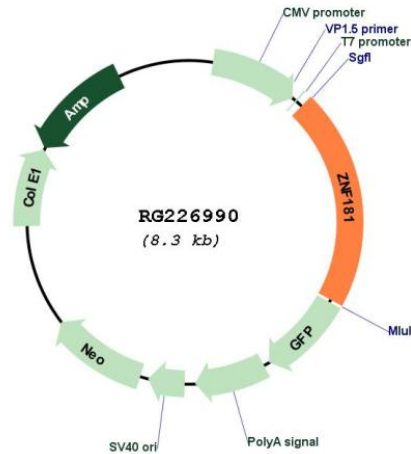
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001145665

ORF Size: 1710 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_001145665.1](#), [NP_001139137.1](#)

RefSeq Size: 2948 bp

RefSeq ORF: 1713 bp

Locus ID: 339318

UniProt ID: [Q2M3W8](#)

Cytogenetics: 19q13.11

Gene Summary: Zinc finger proteins have been shown to interact with nucleic acids and to have diverse functions. The zinc finger domain is a conserved amino acid sequence motif containing 2 specifically positioned cysteines and 2 histidines that are involved in coordinating zinc. Kruppel-related proteins form 1 family of zinc finger proteins. See MIM 604749 for additional information on zinc finger proteins.[supplied by OMIM, Jul 2003]