

Product datasheet for **RG221898**

ZNF331 (NM_001079906) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF331 (NM_001079906) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF331
Synonyms:	RITA; ZNF361; ZNF463
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG221898 ORF sequence, **codon optimized**.
Due to the complexity of NM_001079906, 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**CGGATCGCC**

ATGGCGCAGGGTTGGTTACTTTTGCAGACGTCGCCATCGACTTCAGCCAGGAGGAGTGGGCTTGTCTGA
 ACAGCGCTCAAAGGGACCTTTACTGGGACGTGATGCTGGAGAACTACAGTAATCTCGTGAGTCTCGACCT
 CGAGTCCGCATACGAAAATAAGAGCCTGCCAACCGAAAAGAACATACATGAGATTCGAGCATCCAAGCGG
 AATTCCGATCGCAGATCTAAGTCACTGGGCGGAACTGGATCTGCGAGGGAACACTGGAGAGGCCACAGC
 GCTCTCGGGGACGATACGTCAACCAGATGATCATCAATTATGTTAAACGCCCCGCAACCAGAGAGGGAAAC
 ACCTCCACGAACCCACCAGAGACATCATAAAGAAAACCTATTGCAATGCAAGAGCTGCGGCAAGGCCTTC
 AGCCGGGGTTACCAACTTTCTCAGCACCAGAAAATTCACACAGGCGAGAAACCTATGAATGTAAGGAGT
 GTAAAAAGCATTCCGCTGGGAAACCAGCTGACACAGCACCAGAAGATACACACCGGTGAGAAACCATA
 CGAATGCAAGGACTGTGGTAAAGCCTTCCGCTGGGGGAGTAGTCTGGTTATCCACAAAAGGATACATACC
 GGAGAGAAGCCTTATGAATGCAAGGATTGCGGAAAAGCCTTCCGGCGGAGACGAACTTACCAACATC
 AGAGATCCACACAGGTGAGAAAGATTATGAGTGCAAAGACTGTGGCAAACTTTTTCTCGAGTGATAA
 ATTGATCCAGCACAAAAGGATACATTCTGGCGAGAAACCTATGAGTGTAAGGACTGTGGAAAAGCTTTTC
 ATTTGTGGCAGCTCACTGATTCAACATAAGCGCATACATACCGGGGAAAAGCCTTACGAGTGCCAAGAT
 GTGAAAAGGCTTTCACAGAGTGAATTATCTACCCAACACCAAAAAATCCATACGGGGGAAAAGCCCCA
 CGAGTGCAAAGAGTGCAGCAAGGCATTCCGGTGGGGCTCTAGCCTGGTCAAAACGAAACGAATCCACACC
 GGCGAAAACCGTACAAATGTAAGTGAATGCGGCAAGGCCTTCAACTGTGGCTACCACCTTACCAACACG
 AAAGAATACACTGGAGAACTCCGTACAAATGCAAAGAGTGCAGGCAAAGCTTTTATTTACGGATCCTC
 ATTGTTAAACACGAAAGGATTCATACCGGTGTAACCTTATGGATGTAAGTGTACTGAGTGCAGGAAAGTCTTT
 TCACACGGGCATCACTGACACAGCACCAGAAGACTCACAGCGGTGCAAAAAGCTATGAATGTAAGAAT
 GCGGTAAGGCCTGCAACCACCTGAACCACCTGCGGAGCACCAGCGGATTCACAACCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221898 representing NM_001079906
 Red=Cloning site Green=Tags(s)

MAQGLVTFADVAIDFSQEEWACLNSAQRDLYWDVMLENYSNLVSLDLESAYENKSLPTEKNIHEIRASKR
 NSDRRSKSLGRNWIPEGTLERPQSRGRYVQMIINYVKRPATREGTPPRTHQRHHKENSFECKDCGKAF
 SRGYQLSQHQKIHTGEKPYECKECKKAFRWGNLQHQKIHTGEKPYECKDCGKAFRWGSSLVHKKRIHT
 GEKPYECKDCGKAFRRGDELQHQRFHTGEKDYECKDCGKTFSRVYKLIQHKRIHSGEKPYECKDCGKAF
 ICGSSLIQHKRIHTGEKPYEQECGKAFTRVNYLQHQKIHTGEKPHECKECKGKAFRWGSSLVKHERIHT
 GEKPYKTECGKAFNCGYHLQHERIHTGETPYKCKECKGAFIYGSSLVKHERIHTGVKPYGCTECGKSF
 SHGHQLQHQKTHSGAKSYECKECKGACNHLNHLREHQRIHNS

TRTRPLE – GFP Tag – V

Restriction Sites:

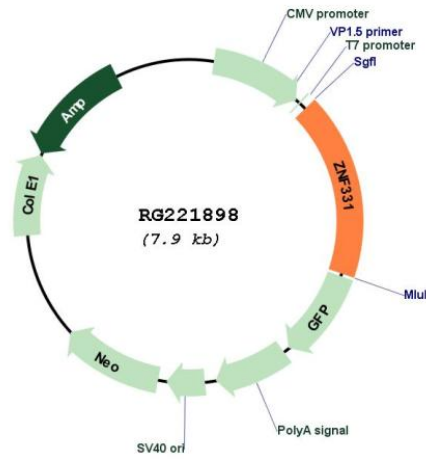
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001079906
ORF Size:	1389 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:	<ol style="list-style-type: none">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_001079906.1 , NP_001073375.1
RefSeq Size:	4151 bp
RefSeq ORF:	1392 bp
Locus ID:	55422
UniProt ID:	Q9NQX6
Cytogenetics:	19q13.42
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a zinc finger protein containing a KRAB (Kruppel-associated box) domain found in transcriptional repressors. This gene may be methylated and silenced in cancer cells. This gene is located within a differentially methylated region (DMR) and shows allele-specific expression in placenta. Alternative splicing and the use of alternative promoters results in multiple transcript variants encoding the same protein. [provided by RefSeq, Nov 2015]