

Product datasheet for **RG203561**

ZNF331 (NM_001079907) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF331 (NM_001079907) 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)



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ORF Nucleotide Sequence:

>RG203561 representing NM_001079907
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCAGGGTTTGGTGACGTTGCGCCGACGTAGCCATAGACTTTTCTCAGGAGGAGTGGGCTGTCTGA
 ACTCTGCTCAGAGGGACCTGTACTGGGACGTGATGCTGGAGAACTACAGTAACTTGGTCTCACTGGATTT
 GGAGTCAGCATATGAAAATAAGAGTTTACCTACAAAAAACATTTCATGAAATAAGGGCTTCCAAAAGG
 AATTCAGATAGAAGAAGTAAATCCCTTGGCCGTAAGTGGATATGTGAAGGTACGCTTAAAGACCACAGC
 GCTCCAGAGGGAGGTATGTCAATCAGATGATCAATTATGTCAAAGGCCTGCTACTAGAGAAGGCAC
 CCCTCCTAGAACACATCAGAGACATCATAAGGAGAATTCCTTTGAATGTAAGGACTGTGGGAAGGCCTTT
 AGTCGTGGCTATCAACTTAGTCAACATCAGAAAATCCATACTGGTGAGAAACCTTATGAATGTAAGAAT
 GTAAGAAGGCCTCCGTTGGGGCAATCAGCTTACTCAACATCAAAAAATTCATACTGGGGAGAAGCCCTA
 CGAATGTAAGACTGTGGGAAGGCTTTTCGATGGGGCTCAAGCCTCGTTATTCATAAGAGGATTCATACT
 GGTGAAAAACCTATGAATGTAAAGACTGTGGAAGGCCTTTCGGCGTGGTGATGAGCTCACTCAGCACC
 AGAGATCCACACTGGGGAGAAAGACTACGAATGCAAAGACTGTGGGAAGACCTTTAGCCGTGTGTATAA
 ACTTATTCAGCACAAGAGAATTCATAGTGGGGAGAAGCCTTACGAGTGTAAAGACTGTGGGAAGGCCTTT
 ATTTGTGGTTCAAGCCTCATTACGATCAAAAAGAAATTCACACAGGTGAGAAACCTATGAATGTCAAGAA
 GTGGGAAGGCCTTACTCGAGTCAATTACCTTACTCAGCATCAGAAGATCCACACCGGTGAGAAGCCTCA
 CGAATGTAAGGAGTGTGGGAAGGCCTTTCGCTGGGGTTCGAGCCTCGTTAAGCACGAGAGGATACATACG
 GGCGAGAAGCCGTACAAGTGCACAGAATGTGGGAAGGCCTTCAATTGTGGCTATCACCTCACTCAGCAGC
 AGAGAATCCACACAGGCCAAACCCGTATAAATGTAAGGAGTGTGGGAAGGCCTTTCATTTATGGATCGAG
 CCTCGTGAACATGAGAGAATTCATACCGGGTGAACCCCTATGGGTGTACAGAATGTGGGAAGAGCCTTT
 AGTCACGGCCATCAGCTTACACAACATCAGAAAACGCACAGTGGGGCGAAATCCTACGAATGTAAGGAGT
 GCGGGAAGGCATGTAACCACCTAAACCATCTCCGAGAACATCAGAGGATCCACAACAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203561 representing NM_001079907
 Red=Cloning site Green=Tags(s)

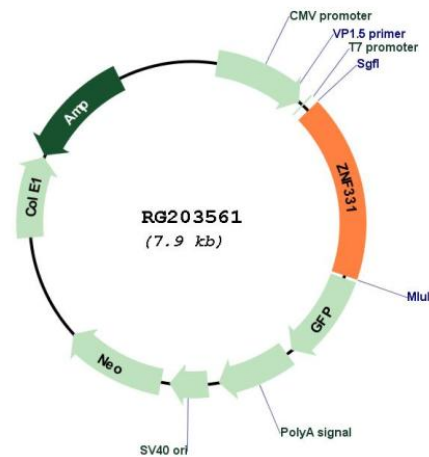
MAQGLVTFADVAIDFSQEEWAACLSAQRDLYWDVMLENYSNLVSLDLESAYENKSLPTKKNIIHEIRASKR
 NSDRRSKSLGRNWI CEGTLERPQRSRGRYVNMIIINYVKRPATREGTPPRTHQRHHKENSFECKDCGKAF
 SRGYQLSQHQKIHTGEKPYECKECKKAFRWGNQLTQHQQIHTGEKPYECKDCGKAFRWGSSLVIIHKRIHT
 GEKPYECKDCGKAFRRGDEL TQHQRFHTEKDYECKDCGKTF SRVYKLIQHKRIHSGEKPYECKDCGKAF
 ICGSSLIQHKRIHTGEKPYEQECGKAFTRVNYLTQHQQIHTGEKPYECKECKKAFRWGSSLVKHERIHT
 GEKPYKTECGKAFNCGYHLTQHERIHTGETPYKCECKGAFIYGSSLVKHERIHTGVKPYGCTECGKSF
 SHGHQLTQHQTHTSGAKSYECKECKKACNHLNHLREHQRIHNS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001079907

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:	<u>NM_001079907.1</u> , <u>NP_001073376.1</u>
RefSeq Size:	4171 bp
RefSeq ORF:	1392 bp
Locus ID:	55422
UniProt ID:	<u>Q9NQX6</u>
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]