

Product datasheet for **RC234175**

ZNF331 (NM_001253799) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF331 (NM_001253799) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF331
Synonyms:	RITA; ZNF361; ZNF463
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234175 representing NM_001253799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCAGGGTTTGGTGACGTTGCGCCGACGTAGCCATAGACTTTTCTCAGGAGGAGTGGGCCTGTCTGA
 ACTCTGCTCAGAGGGACCTGTACTGGGACGTGATGCTGGAGAACTACAGTAACTTGGTCTCACTGGATTT
 GGAGTCAGCATATGAAAATAAGAGTTTACCTACAGAAAAAACATTCATGAAATAAGGGCTTCCAAAAGG
 AATTCAGATAGAAGAAGTAAATCCCTTGGCCGTAAGTGGATATGTGAAGGTACGCTTGAAGACCACAGC
 GCTCCAGAGGGAGGTATGTCAATCAGATGATCAATTATGTCAAAGACCTGCTACTAGAGAAGGCAC
 CCCTCCTAGAACACATCAGAGACATCATAAGGAGAATTCCTTTGAATGTAAGGACTGTGGGAAGGCCTTT
 AGTCGTGGCTATCAACTTAGTCAACATCAGAAAAATCCATACTGGTGAGAAACCTTATGAATGTAAGAAT
 GTAAGAAGGCCTCCGTTGGGGCAATCAGCTTACTCAACATCAAAAAATTCATACTGGGGAGAAGCCCTA
 CGAATGTAAGACTGTGGGAAGGCTTTTCGATGGGGCTCAAGCCTCGTTATTCATAAGAGGATTCATACT
 GGTGAAAAACCTATGAATGTAAAGACTGTGGAAGGCCTTTCGGCGTGGTGATGAGCTCACTCAGACC
 AGAGATCCACACTGGGGAGAAAGACTACGAATGCAAAGACTGTGGGAAGACCTTATGCCGTGTGTATAA
 ACTTATTCAGCACAAGAGAATTCATAGTGGGGAGAAGCCTTACGAGTGTAAAGACTGTGGGAAGGCCTTT
 ATTTGTGGTTCAAGCCTCATTACGATAAAAAGAATTCACACAGGTGAGAAACCTATGAATGTCAAGAAT
 GTGGGAAGGCCTTACTCGAGTCAATTACCTTACTCAGCATCAGAAGATCCACACCGGTGAGAAGCCTCA
 CGAATGTAAGGAGTGTGGGAAGGCCTTTCGCTGGGGTTCGAGCCTCGTTAAGCACGAGAGGATACATACG
 GGCGAGAAGCCGTACAAGTGCACAGAATGTGGGAAGGCCTTCAATTGTGGCTATCACCTCACTCAGCAGC
 AGAGAATCCACACAGGCCAAACCCGTATAAATGTAAGGAGTGTGGGAAGGCCTTTCATTTTGGATCGAG
 CCTCGTGAACATGAGAGAATTCATACCGGGGTGAAACCTATGGGTGTACAGAATGTGGGAAGAGCCTTT
 AGTCACGGCCATCAGCTTACACAACATCAGAAAAACGCACAGTGGGGCGAAATCCTACGAATGTAAGGAGT
 GCGGGAAGGCATGTAACCACCTAAACCATCTCCGAGAACATCAGAGGATCCACAACAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234175 representing NM_001253799
 Red=Cloning site Green=Tags(s)

MAQGLVTFADVAIDFSQEEWACLNSAQRDL YWDVMLENYSNLVSLDLESAYENKSLPTEKNIHEIRASKR
 NSDRRSKSLGRNWICEGTLERPQRSRGRVYVQMIINYVKRPATREGTPPRTHQRHHKENSFECKDCGKAF
 SRGYQLSQHQKIHTGEKPYECKECKKAFRWGNQLTQHOKIHTGEKPYECKDCGKAFRWGSSLVIHKRIHT
 GEKPYECKDCGKAFRRGDEL TQHRFHTGEKDYECKDCGKTF SRVYKLIQHKRIHSGEKPYECKDCGKAF
 ICGSSLIQHKRIHTGEKPYEQECGKAFTRVNYLTQHOKIHTGEKPHECKECKGAFRWGSSLVKHERIHT
 GEKPYKCTECGKAFNCGYHLTQHERIHTGETPYKCKECKGAFIYGSSLVKHERIHTGVKPYGCTECGKSF
 SHGHLTQHOKTHSGAKSYECKECKKACNHLNHLREHQR IHNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001253799

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:

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_001253799.2](#)

RefSeq Size: 4137 bp

RefSeq ORF: 1392 bp

Locus ID: 55422

UniProt ID: [Q9NQX6](#)

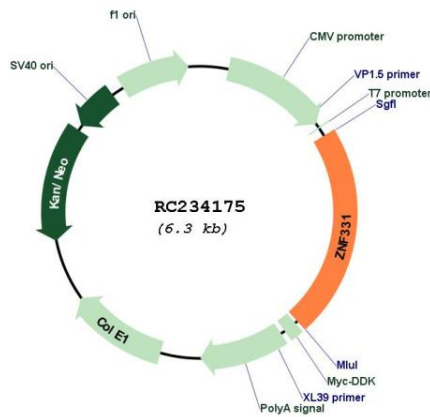
Cytogenetics: 19q13.42

Protein Families: Transcription Factors

MW: 54.2 kDa

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]

Product images:



Circular map for RC234175