

## Product datasheet for **RC203034**

### ZNF31 (ZSCAN20) (NM\_145238) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF31 (ZSCAN20) (NM_145238) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF31
Synonyms:	KOX29; ZFP-31; ZNF31; ZNF360
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203034 ORF sequence, <b>codon optimized</b> . Due to the complexity of NM_145238, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGGCCATGGCGCTCGAGCTGCAGGCTCAGGCTAGCCCTCAGCCAGAGCCTGAAGAGCTCCTGATTGTCAAGCTCGAGGAAGATTCTTGGGGCAGCGAGTCCAAGCTGTGGGAGAAGGACCGCGGAAGCGTGAGCGGCCCGTGAAGCCAGTCGCCAGCGCTTTCGGCAGTTTCAATACAGGGATGCGGCCGGACCCACGAAGCGTTTTCCAGCTTTGGGCGCTTGTTCAGGTGGCTGAGGCCTGAAATAAGGCTCAAGGAACAGATTCTTGAAGTGCCTCGTGTGGAGCAGTTTCTACAATTTTGCCTCGAGAGGTTTCCAGCTGGGTCCAAGCAAGACACCCAGAAAGTGGCGAAGAGGCTGTGGCTCTCGTCGAGGATTGGCATCGGAAACTAGAACCAGCGGGCCAGTCCGGAAGTGGACTGCACACCGAAGAAACCGGCCACTTAAGACTGGTGAAGAAGCCAGTCATCCAGCTCCAGCAGTTGATCCCTGGCCGGAGGGCCAGTCCAGAAAAAGGGCGTGAAGAACACCTGTCCCGATCTGCCTAATCATCTTAATGCCGAGGTCGCCCGCAGCCATTGAAAGAATCTGCCGTGCTGACACCAAGAGTGCCCAACTGCCGAAAAATGGGATCCGTGGGGGACTGGGAAGTCACAGCCGAGAGCCAGGAAGCACTGGTCCGGGTAACACGCCGAGAAAGAACTGTGCAAGGACCCACCAGGTGATGACTGTGGCAACTCTGTTTGCCTGGGGTGCCCGTGTCTAAACCATCCAACACTAGCGAAAAGGAACAGGGACCGGAGTTCTGGGGCTTCTCTTATTAACTCCGGGAAGAGGTCTACCGCGGATTACTACTGGACAATGAACCAGCACAGGCCCTGACATGGCGAGATTCAAGAGCTTGGGAGAACAGTACCAGTGGGACGTGAAGATATGAAGGTGTCAGGGGTGCACTGGGATATGAGGAAACCAAACTTTTCTGCCATTCTGTCCGAGTCCCCTTTTCAGAGAAGCTCGGACATGCACCAAAATAGACAGGTGTACCGCGCTATCGCCGAGCAGTTGCGGCACGCGGATTCTTGAGGACTCTTG



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AACAGTGCAGATATCGCGTAAAAAATTGCTTCGCAACTACAGAAAAGCTAAGTCTAGCCACCCCTGG  
 GACCTGCCATTCTATGAGGAACTGGAAGCGCTGGTGCAGCGCGAACTGCAATTCGCGCCACTGACGGG  
 CCAGGAGAAGCCGTGGCCTGCCCGATTGGGGGATTAGATGCCGAGATGGATGAGCAAGGAAGGAG  
 GCTGGGATCCCGAAGAAATGGCCGAAGACTGTAATGGCGCAGGGCTCGTGAACGTAGAATCAACTCAGGG  
 CCCTAGGATCGCGGGAGCCCCAGCACTTTTTCAGTCCCGCATCGCGGGGTGCACTGGGGATACGAGGAG  
 ACAAAGGCTTTTTTGGCCATTCTCTCTGAGAGCCATTTTCCGAAAAGTTGCGAACGTGCCACCAAAAT  
 CCCAAGTGATCGCGCGATAGCTGAGAGGCTGTGTGCATTGGGGTTTCTCAGAACCCTGGAGCAGTGCCG  
 GTACCGCTTTAAAAATTTGTTGCCAGTTATAGGAAGGCCAAGTATCTACCCTCCAGGAACATGTCCA  
 TTTTACGAAGAGCTGGATAGCTTGTGAGCTAGGGCCCGCTCAGAGCAATGGGAACCGTAAGAGAGG  
 CCGCTGGCCTTCCACGGTGCAGCTCGCCGAACTGATGCTCAGGAAGCCTGGGGCGAAGTGGC  
 AAACGAGGACGCTGTGAAACCCTCCACTGTGCCCAAAGCCCTGACATGGGGTTTCAAATGAGACAT  
 GAGGACGAAGATCAGATATCAGAGCAGGACATATTCGAAGGGTTGCCGGAGCGCTCAGCAAGTGTCAA  
 CCGAGGCGGTGTCCAGCCTCTCGATTGGGAGAGGACAGTAAAATGAGAACGAGGACGAGGGCAGTG  
 GGGAAATCCTTCTCAGGAACAATGGCAGGAATCCTCAAGCGAGGAAGACTTGGAGAAATGATAGACCAC  
 CAAGGGCTGTATCTCGCAGAAAAGCCTTATAAGTGTGATACTTGCATGAAGATTTCTCCCGCAGCAGTC  
 ATTTTCATTGCTCACCAAAGGATTCAACCGGGGAGAAACCATACAAGTGCTTGAATGCGGTAAAAATTT  
 CAGCGATCGATCCAACCTGAACACTCACCAGAGGATTCACACCGCGAAAAACCTATAAATGCCTGGAA  
 TGCGGGAAGTCATTACGCGATCATTCCAATCTGATCACTCACCAGAGAATACATACGGGCGAAAAGCCAT  
 ATAAATGCGGCGAGTGTGGAAGCTTTTAAATCAAAGTAGCAACCTGCTTAAAGCACCAGAGGATTACCT  
 CGGCGCAATCCAGATCAATGTTCCGAGCCCGGAGGTAATTTCCGACAGAGTCCATCTTTTCAGCGCTCAT  
 TGGCGCAATAGCACCGAGGAGACTGCGCCTGAGCAACCCAAAGCATCTCTAAAGATTTGAATCCCCAG  
 GACCTCACTCCACTAATAGTGGGAGAGCTGTATGAATGCTCCGAGTGTGGAAGTTCATCTCTAAGTC  
 CAGCGCACTCAGTCATCAGCGGATTCATACCGGCGAAAAGCCCTACGAGTGTGCGGAAATCGGGGAAA  
 TCATTTAGCAAAAAGCAGCACCTTGGCTAATCACCAGAGAACACACAGGAGAAAAGCCTTACAAAATGCG  
 TTGATTGCGGAAAAGTGTTCCTCAGAGAGGTCTAAGCTGATAACACACCAGCGGGTTCACACCGGCGAGAA  
 GCCCTATAAGTGCCTTGAGTGCAGGAAAGTTCTTTTCGAGATCGGTCAAATCTGATCACACATCAGCGAATA  
 CATACTGGGAGAAAACCTACAAGTGTGCGGAAATGCGGAAAATGTTTTAATCAGTCTAGCTCTTTATAA  
 TCCACCAGCGAATCCACACCGGGGAAAACCGTACAAATGCACGGAATGTGAAAAGACTTTAACACAG  
 CAGCCATTTCTGCCCATAGGAGGACTACGCCGGCGCAAGGCTTCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC203034 representing NM\_145238  
 Red=Cloning site Green=Tags(s)

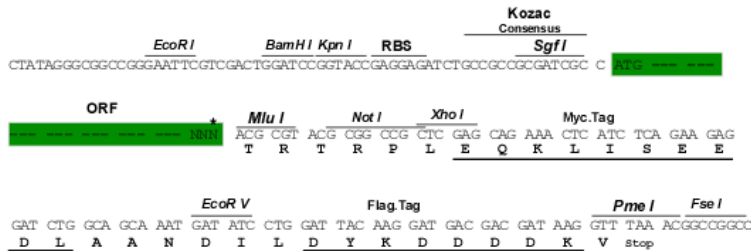
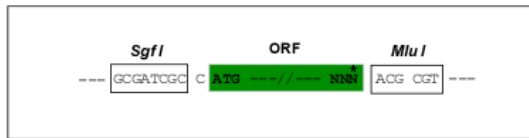
MAMALELQAQASPQPEPEELLIVKLEEDSWGSESKLWEKDRGSVSGPEASRQRFQYRDAAGPHEAFS  
 QLWALCCRWL RPEIRLKEQILELLVLEQFLTILPREVQTWVQARHPE SGEEAVALVEDWHRETRTAGQSG  
 LELHTEETRPLKTGEEAQSFQLQPVPDPWPEGQSQKKGVKNTCPDLPNHLNAEVAPQLKESAVLTPRVPT  
 LPKMGSVGDWEVTAESQEALGPGKHAEKELCKDPPGDDCGNSVCLGVPVSKPSNTSEKEQGPEFWGLSLI  
 NSGKRSTADYSLDNEPAQALTWDRSRAWEEQYQWVDMKVSQVHWGYYEETKFLAILSESPFSEKLRTC  
 HQNRQVYRAIAEQLRARGFLRTLQCRYRVKNLLRNYRKAKSSHPPGTCPFYEELEALVRARTAIRATDG  
 PGEAVALPRLGSDAEMDEQEEGGWDPEEMAEDCNGAGLVNVESTQGPRIAGAPALFQSRIAGVHWGYYE  
 TKAFLAILSESPFSEKLRTCHQNSQVYRAIAERL CALGFLRTLQCRYRFKNLLRSYRKAKSSHPPGTCP  
 FYEELDSL MRARA AVRAMGTVREAAGLPRCGSSAETDAQEAWGEVANEDAVKPSLCPKAPDMGFEMRH  
 EDEDQISEQDIFEGLPGALSKCPTAVCQPLDWGEDSENENEDEGQWGNPSQEQWQESSSEEDLEKLDH  
 QGLYLAEKPKYKCDTCMKFSRSSHFI AHQRIHTGEKPKYKLECGKNFSDRSNLNTHQRIHTGEKPKYKLE  
 CGKFSFDHNSLITHQRIHTGEKPKYKCGECWKSFNQSSNLLKHQRIHLGGNPDQCSFPGGNAQSPFS  
 WRNSTEETAPEQPQSISKDLNSPGPHSTNSGEKLYECSECGRSFSKSSALISHQRIHTGEKPYECAECGK  
 SFSKSSLANHQRTHTGEKPKYKVDGKCF SERSKLIHQRVHTGEKPKYKLECGKFFRDRSNLITHQRI  
 HTGEKPKYKCREGKCFNQSSSLI HQRIHTGEKPKYKTECGKDFNNSSHFSAHRRTHAGGKAS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_145238

ORF Size: 3129 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\\_145238.3](#), [NP\\_660281.2](#)

**RefSeq Size:** 4243 bp

**RefSeq ORF:** 3132 bp

**Locus ID:** 7579

**UniProt ID:** [P17040](#)

**Cytogenetics:** 1p35.1

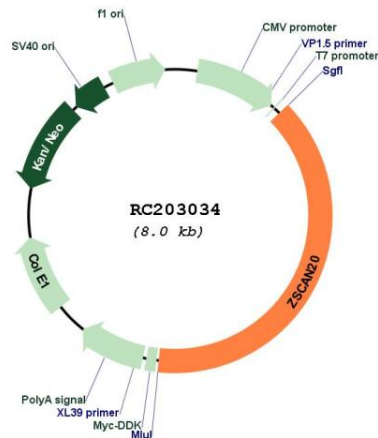
**Domains:** myb\_DNA-binding, LER, zf-C2H2

**Protein Families:** Transcription Factors

**MW:** 117.5 kDa

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

**Product images:**



Circular map for RC203034