

Product datasheet for **RC201276**

ZNF551 (NM_138347) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF551 (NM_138347) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF551
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201276 ORF sequence, **codon optimized**.
Due to the complexity of NM_138347, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGCGCCAGTGGGTAGGCGATCCCCGCCCTCTCCAGGTCATCTATGGCTGCAGTCGCGCTCCGCG
 ATTCTGCCAAGGGATGACATTCGAAGACGTGGCCATTTATTTCTCTCAAGAGGAATGGGAGCTGCTCGA
 TGAATCTCAGCGTTCCTTTATTGCGATGTGATGCTGGAGAATTTGCACATGTGACATCCCTGGGCTAC
 TGTCACGGCATGGAAAATGAGGCTATCGCCAGTGAACAGTCAGTGTCCATCCAGGTGCGAACAAGCAAGG
 GCAATACCCCAACGCAGAAAACGCACCTGTGAGAAATCAAGATGTGTGTCCCGTGTGAAAAGACATTCT
 GCCCGCTGCCGAACATCAGACCACAGTCCAGTGCAGAAGAGCTACCTCGGATCCACCTCTATGAGGGGG
 TTCTGTTTCAGTGCCGATCTTCATCAGCACAAAAACACTACAACGAAGAAGAACCATGGAAAACGGAAGG
 TCGATGAGGCAACGTTTCGTGACCGGGTGTAGATTCACGTGCTGAACTACTTCACCTGTGGTGAGGCCTT
 CCCGGCCCTACCGATCTCCTGCAACATGAGGCTACGCCGAGCGGAGAAGAACCACACTCAAGCAGCTCC
 AAACACATCCAGGCCTTCTTCAACGCCAAAAGTTACTACAAATGGGGCGAATACCGGAAAGCCAGTTCAC
 ACAAGCACACTTTGGTACAGCACCAATCAGTATGCAGTGAGGGCGGCCTGTACGAATGTTCAAAGTGCGA
 GAAGGCTTTTACCTGTAAGAATACCTTGGTGCAACATCAACAGATTACACAGGTCAAAGATGTTTCGAA
 TGACGCGAGTGTGAAGAATCATTTCAAAAAGTGTCTGATACTTCATAAGATCATTATACAGGAG
 AGCGGCCCTATGAGTGCTCAGACCAGAAAAAGCATTATCCATAAATCCGAGTTCATCCATCACCAGAG
 ACGGCACACTGGTGGGGTGCAGCATGAGTGCAGAGAGTGTAGAAAAGACCTTTTCATACAAAAGTAATCTG
 ATAGAGCATCAGAGGGTACACACCGGAGAACGCCCTATGAATGTGGGGAGTGCAGTAAGTCATTACGGC
 AGTCCAGTAGCCTGTTTAGGCACCAGCGGGTGCACACTAGGGGAACGGCCTTATCAGTGTGTGAGTGCGG
 CAAATCTTTCAGACAGATATTCAACCTGATCCGGCACCGAAGGGTTCATACAGGCGAGATGCCATATCAG
 TGTTCCGACTGCGGAAATCCTTCAGTTGTAAGAGTGAGCTGATCCAGCATCAGCGGATTCACAGTGCGG
 AGCGACCTATGAATGTAGGGAGTGCAGCAATCATTCCGACAATTCAGTAATCTTATCCGCCACCGCAG
 CATCCATACCGGGATCGGCCCTATGAGTGTCTGAGTGTGAAAAGTCATTCTCCCGGAAGTTTATCCTG
 ATCCAACATCAGAGGGTCCACACTGGAGAGCGGCCGTATGAGTGTTCAGAATGCGGAAAAATCCTTTACAA
 GAAAATCTGATTTGATCCAGCATCGGAGGATTCATACAGGCACCCGACCATACGAGTGTAGTGAATGCGG
 CAAGTCTTCCGGCAAAGGAGCGGCCTGATCCAACATCGAAGACTGCACACTGGGGAGCGCCCGTACGAG
 TGCTCAGAGTGTGGAAAAGCTTTTACAGTCCGCCTCTTTGATACAACATCAGCGCGTCCACACTGGGG
 AGAGGCCGTATGAATGTAGCGAGTGCAGAAAGAGCTTCAGCCAGTCCAGCTCTCTTATTCAACATCAACG
 AGGGCACACTGGCGAACGGCCTTATGAGTGTAGCCAGTGCAGTAAGCCATTCACCACAAGTCAGATCTC
 ATCCAGCATCAGAGAGTGCATACAGGGGAAAGGCCTTATGAATGCAGTGTGAGTGTGGAAAAGAGTTTTCTC
 GGAAGTCTAACCTGATTAGGCACCGCGCGTGCATACGGAAGAAAAGGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201276 representing NM_138347
Red=Cloning site Green=Tags(s)

MPAPVGRSPSPRSMMAAVALRDSAQGMTFEDVAIYFSQEEWELLDSEQRFLYCDVMLENFAHVTSLGY
 CHGMENEAIASEQSVSIQVRTSKGNTPTQKTHLSEIKMCPVVKDILPAAEHQTTSPVQKSYLGSTSMRG
 FCFADLHQHQKHYNNEEPWKRKVDEATFVTGCRFHVLNYFTCGEAFPAPTDLLQHEATPSGEEPHSSSS
 KHIQAFNAKSYKWGEYRKASSHKHTLVQHQSVCEGGLYECSEKCEKAFCKNTLVQHQIHTGQKMF
 CSECEESFSKKCHLILHKIHTGERPYECSDREKAFIHKSEFIHHQRRHTGGVRHECGECKRTFSYKSNL
 IEHQRVHTGERPYECGECGKSFQSSSLFRHQRVHSGERPQCCECGKSFQIFNLIRHRRVHTGEMPYQ
 CSDCGKSFCKSELIHQHQRIHSGERPYECECGKSFQFQSNLIRHRSIHTGDRPYECSECEKFSRKFIL
 IQHQRVHTGERPYECSECGKSFTRKSDLIQHRRHTGTRPYECSECGKSFQRSLIQHRRHTGERPYE
 CSECGKSFQSASLIHQHQRVHTGERPYECSECGKSFQSSSLIQHQRGHTGERPYECQCGKPFTHKSDL
 IQHQRVHTGERPYECSECGKSFSRKSNLIRHRRVHTEERP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_138347

ORF Size: 2010 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_138347.4](#), [NP_612356.2](#)

RefSeq Size: 4560 bp

RefSeq ORF: 2013 bp

Locus ID: 90233

UniProt ID: [Q7Z340](#)

Cytogenetics: 19q13.43

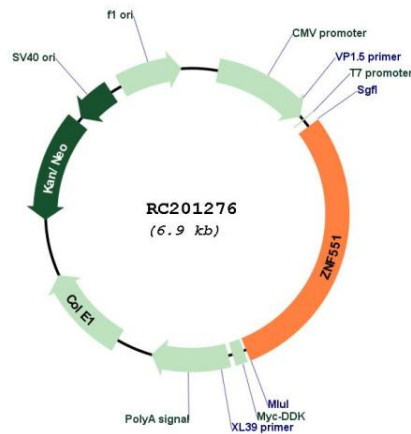
Domains: KRAB, zf-C2H2

Protein Families: Transcription Factors

MW: 77.5 kDa

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

Product images:



Circular map for RC201276