

Product datasheet for **RC216992**

ZMIZ2 (NM_031449) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZMIZ2 (NM_031449) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZMIZ2
Synonyms:	hZIMP7; NET27; TRAFIP20; ZIMP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216992 representing NM_031449
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCTCATGAACCCCATGAAACCTGCCTGCCCCCTGCGCCACACGGTGATGGTTTCATTCGCATATG
 AGTCTGTGCCTTGGCAACAAGCGCCACTCAGCCGGCTGGATCGCTGTCTGTGGTCACTACTGTGTGGG
 AGTTGGCAACGCGACACAGACCAGTTTTGGGGAACCCCATGGGCCCTGCAGGGAGTCCCTCTGCAGC
 TCCATGATGCCTGGTGTGGCAGGGGGCAGCTCCGCCTTGACCTCCCCACAGTGCCTGGGACAGCAGGCGT
 TTGCTGAAGGCGGCGCCAACAAGGGCTACGTGCAGCAAGGCGTGTACAGCCGCGGGGGCTACCCTGGGGC
 CCCCAGCTTACCACCGGGTATGCAGGCGGCCCGGGGGCCTGGGCTCCCTCACATGCTGCAAGACCC
 TCCACTGACTTACGCAAGCGGCAGCTGCTGCAGCTGTGGCTGCTGCGGCAGCCACTGCCACCGCCACAG
 CCACAGCCACCGTGGCTGCTCTCCAGGAGAAGCAGAGCCAGGAGCTGAGCCAGTATGGAGCGATGGGGC
 CGGACAGTCTTTAACAGCCAGTTTCTGCAGCATGGAGGTCCCCGGGGCCTAGTGTCCCGCTGGCATG
 AACCTACTGGCATAGGAGGGGTAAATGGGCCCTCTGGCTCTCCCCCTGGCTATGAACCCACCCGGG
 CAGCAGGAATGACACCCTTGATGCAGGGCAGCGTCTGCCCAACATGGGTATCCTGGGCCCTCCCCAGGC
 CCAGCCACTGCCCGACAGGGGGTCAAGAGAACCCTACTCTGAGGTGTATCCAGGGCAGCAGTATCTGCAA
 GGAGGCCAGTATGCACCCAGCACCGCCAGTTTGCGCCAGCCCTGGGCAGCCCCCTGCCCTCCCTT
 CCTACCCTGGGCACAGGCTGCCCTGCAGCAGGGCATGACCCAGTCCCTGTCCGTGCCTGGCCCCACGGG
 ACTGCATTATAAGCCACAGAGCAGTTCAACGGGCAGGGCGCCAGCTTCAACGGGGCAGCGTACGTAC
 AGCCAACCTGGCTGAGTGGGCTACCCGTTCCATCCCGGGCTATCCCAGTTCCTCCACTGCCAGGGAACC
 CCACGCCACCCATGACCCCAAGCAGCAGCGTCCCTTACATGTACCAAAACCAAGAGGTCAAGTCTCCCTT
 CTGCTGATCTCAAGCCCAACCTCAACTCCTTGCACTCATCGCCCTCTGGAAGCGGGCCTTGACAGAG
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 GCAATTCAAGTGTACCACCACGAGGACCAGGAGTGAACACCAACTGGCCAGCCTCGGTGCAGGTGAGC
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 ATGTGTGCCAGCCAGGCCGCAACACCATCCAGATCACCCTCACCCTGCTGCTGCTCCACCTCTTCGT
 GCTGCAGTAGTGCACCCCCATCCGTCGCTCGGTGCTGCAGGGCCTCCTCAAAAAGCGCTCCTGCT
 GCTGAGCACTGCATACCAAGATAAAGCGGAATTCAGCAGCGGCACCATCCCTGGCACCCTGGGCCCA
 ACGGAGAGGACGGGGTGGAGCAGACAGCTATCAAGGTGTCCCTGAAGTGCCCATCACCTCCCGCAGGAT
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 AACTGTGAGCGGGGGACTTGGAGGTGCTCTGTGTGCAACAAGACAGCTTTGCTGGAGGGCCTGGAGGTGG
 ACCAGTACATGCTGGGCATCCTGATTTACATTCAGAACTGACTATGAGGAGATCACCATCGACCCAC
 GTGCAGCTGGAAGCCAGTGCCGTGAAGCCTGACATGCACATCAAGGAGGAGCCGGATGGGCCAGCACTG
 AAGCGCTGCCGCACCGTGAAGCCCGCCACGTGCTCATGCCAGCGTGTGGAGATGATCGCCGCCCTGG
 GCCCGGGCGTGGCCCTTTGCCCTTGCAGCCCCCTCAGTCCCTGCCCGAGCGACTACCTGGCCA
 GGGTCCAGCTTCTGGGGCCTGGAATTTCCCTGAGTCTTCCCACCCAGCCAGCCAGCCCAACC
 CTTGCTGAGTTACCCCCGGGACCACCCCATCTCCTACCAGTCTGACATTCCCAGCAGCCTCCTGACTT
 CAGAGAAGTCTACCGCTGCCTCCCAAGCCAGATGGCACCAGCAGGTACCTGGACCCCACTCACATCC
 TGGGACACCAGGACTACACACCTCCAACCTTGGGGCCCTCCAGGTCCCAGCTGCACATTCAAACCTT
 CCCCAGCGTCCCGCAGTCTTGGGCCAAGCGAGCTTAGGACCTACGGGTGAATGGCCTTCAATCCTG
 CCACAGGCGTGTGGGGCCCCCAGCATGTCTGGAGCCGGGGAGGCCCAAGAACAGCTCTGGACCTGCT
 CCCGGAAGTACCAACCTGATGAGCTACTGCTACTTGGGCCACCCGACCTCCCTACGAACAACAAT
 GACGACCTGCTTCTCTGTTGAGAACAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216992 representing NM_031449
 Red=Cloning site Green=Tags(s)

MNSMNPMPKALPPAPHDGGSFAYESVPWQQSATQPAGSLSVVTTVWVGNGATQSQVLGNPMGPAGSPSGS
 SMMPGVAGSSALTSPQCLGQQAFAEGGANKGYVQQGVYSRGGYPGAPGFTTGYAGGPGGLGLPSHAARP
 STDFTQAAAAAATAATATATATVAALQEKQSQELSOYGAMGAGQSFNSQFLQHGGRGSPVPAGM
 NPTGIGVMGSPGLSPLAMNPTRAAGMTPLYAGQRLPQHGYPPQAQPLPRQGVKRTYSEVYPGQYLQ
 GGQYAPSTAQFAPSPGQPPAPSPSYPGHRLPLQQGMTQSLVPGPTGLHYKPTQFNGQGASFNNGSVSY
 SQPGLSGPTRSIPGYSSPLPGNPTPPMTPSSSVPYMSPNQEVKSPFLPDLKPNLNSLHSSPSGSGPCDE
 LRLTFPVRDGVLEPFRLQHNLAVSNHVFQLRDSVYKTLIMRPDLELQFKCYHHEDRQMNTNWPASVQVS
 VNATPLTIERGDNKTSKPLYLKHVCQGRNTIQITVTACCCSHLFLVQLVHRPSVRSVLQGLLKKRLLP
 AEHCITIKRNFSSGTIPGTPGPNGEDGVEQTAIKVSLKCPITFRRIQLPARGHDCRHIQCDFLESYLQL
 NCERGTWRCPVCNKTALLEGLEVDQYMLGILIIYIQNSDYEEITIDPTCSWKPVVVKPDMHIKEEPDGPAL
 KRCRTVSPAHLMPVMEIAALGGAAPFAPLQPPSVPAPSDYPGQSSFLGPGTFPESFPPTTPTSTPT
 LAEFTPGPPPISYQSDIPSSLLTSEKSTA CLPSQMAPAGHLDPHNPGLHTSNL GAPPGPQLHHSNP
 PPARSQLGQASLGPTGELAFSPATGVMGPPSMGAGEAPEPALDLLPEL TNPDELLSYLGPPDLPTNNN
 DDLLSLFENN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8018_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



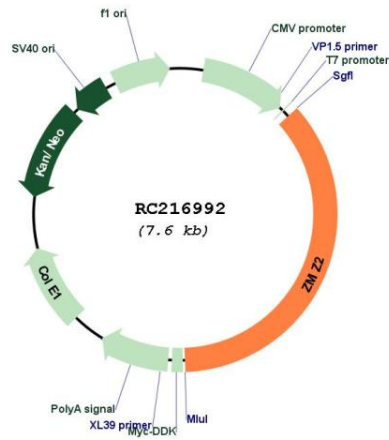
* The last codon before the Stop codon of the ORF

ACCN: NM_031449

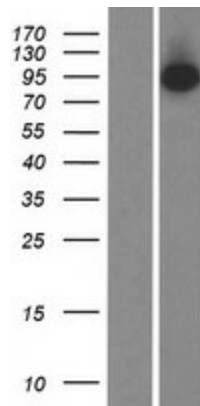
ORF Size: 2760 bp

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_031449.4
RefSeq Size:	5159 bp
RefSeq ORF:	2763 bp
Locus ID:	83637
UniProt ID:	Q8NF64
Cytogenetics:	7p13
Domains:	zf-MIZ
MW:	96.4 kDa
Gene Summary:	ZMIZ2 and ZMIZ1 (MIM 607159) are members of a PIAS (see MIM 603566)-like family of proteins that interact with nuclear hormone receptors. ZMIZ2 interacts with androgen receptor (AR; MIM 313700) and enhances AR-mediated transcription (Huang et al., 2005 [PubMed 16051670]).[supplied by OMIM, May 2010]

Product images:



Circular map for RC216992



Western blot validation of overexpression lysate (Cat# [LY410521]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216992 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).