

Product datasheet for **RC201054**

ANKZF1 (NM_018089) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKZF1 (NM_018089) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANKZF1
Synonyms:	Vms1; ZNF744
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC201054 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGCCGGCTCCAGATGCAGCCCCGGCTCCTGCGTCGATCTCCCTGTTTGACCTCAGCGCGGATGCTC
 CGGTCTTTCAGGGCCTGAGCCTGGTGAGCCACGCGCCTGGGGAGGCTCTGGCCCGGGCTCCGCGTACTTC
 CTGTTCCAGGCTCAGGGGAGAGAGAAAGCCAGAAAGAAAGCTACTCCAGGGTCTATGGATATTTTACAGAG
 AAGTTATTTTGTCAACTTGTGACCAGACCTTCCAGAACCACCAAGAACAGAGGGAACATTATAAGCTTG
 ACTGGCATCGGTTTAACTAAAGCAACGCTCAAGGACAAGCCTCTCTGTCTGCCCTGGACTTTGAAAA
 GCAGAGCTCCACAGGAGATCTTCCAGCATCTCGGGATCAGAAGACTCAGACTCAGCCAGTGAGGAGGAC
 TTGCAGACACTGGATCGGGAGAGGGCTACATTTGAGAAGTTGAGCCGACCCCGAGCTTTTACCCTCATC
 GAGTTCTTTTCCAGAATGCCAGGGCCAGTTTCTTTATGCCTACCGCTGTGTCTAGGCCCTCATCAGGA
 TCCCCCAGAAGAGGCAGAACTGTGCTACAGAACCTGCAAAGTAGAGGTCCAGAGACTGCGTGGTGCTC
 ATGGCTGCAGCTGGGCACCTTTGCTGGTGCTATATTTCAAGGAAGAGAAGTGGTGACACACAAAACCTTTTC
 ACCGCTATACGGTTCGGGCCAAGCGGGGCACAGCCAGGGGCTTCGGGATGCCCGAGGTGGGCCATCACA
 CTCTGCTGGAGCCAACCTGAGGGCCTACAATGAAGCCACACTATATAAGGATGTTTCGTGACTGCTGGCA
 GGGCCAAGCTGGGCTAAGGCGCTGGAGGAGGCTGGTACAATACTGTTGCTGCTCCCCGCTCTGGCCGGT
 CTTTGTCTTTGGAGGCAAGGGAGCACCCCTGCAAAGGGGGATCCCCGACTTTGGGATATCCCCCTCGC
 CACCCGCAGACCCACCTTCCAAGAGCTACAGCGTGTGCTCCATAAGCTGACCACTTTGCATGTCTATGAA
 GAAGACCTCGGGAAGCAGTCAGACTGCACCTCAGACACACTGGAAAACAGTAAGAGAGGAGAGAA
 AGAAGCCTACTGAGGAAGAAATAAGAAAGATCTGCAGGGATGAAAAGGAAGCGCTGGGGCAGAATGAGAA
 ATCTCCCAAACAGGGTTCAAGGTCGGAGGGAGAAGATGGCTTTCAGGTAGAGTTGGAGCTAGTGGAGTTG
 ACTGTGGGGACTCTGGATCTTTGTGAGTCTGAAGTATTGCCAAGCGGAGGAGGAGAAAAAGGAATAAGA
 AGGAGAAAAGCCGAGACCAGGAGGCTGGGGCACATCGACTCTTCTCCAGCAAACCAAGAAGAGGAGCC
 TTCCACACAGTCATCCCAGGCAGTTGCTGCCCCCTTGGGCCCTTGTGGATGAGGCCAAAGCCCTGGT
 CAGCCAGAGCTCTGGAATGCACTGCTTGTGCTTGCAGCTGGAGATGTTGGAGTGCTAAAGCTGCAGC
 TAGCTCCCAGCCCTGCAGACCCTAGAGTTCTGTCTGCTCAGTGCCCCCTTGGGCTCCGGTGGCTTTAC
 TCTCTGCATGCAGCAGCTGCAGCTGGAAGAGGCTCAGTGGTTCGTCTGCTGCTGGAAGCAGGTGCTGAC
 CCCACTGTGCAGGACTCTCGGGCCGGCCACCTTATACTGTTGCGGCTGACAAATCAACACGTAATGAGT
 TCCGAAGTTTCATGGAGAAGAATCCAGATGCCTACGATTACAACAAGGCTCAGGTGCCAGGACCATTGAC
 ACCAGAAATGGAGGCACGGCAGGCTACACGGAAGGGAGCAGAAAGCAGCCCGGCGGCAACGGGAGGAA
 CAGCAGCAGAGGCAGCAGGAGCAGGAGGAGCGTGAACGAGAAGAGCAGCGGCGATTTGCCGCCCTCAGTG
 ACCGAGAGAAGAGAGCTCTGGCTGCAGAGCGCCGACTCGCTGCCAGTTGGGAGCCCTACCTCTCCAAT
 CCCTGACTCTGCAATCGTCAATACTCGACGCTGCTGGAGTTGTGGGGCATCCCTCCAAGGCTGACTCCC
 TTTACTACCTCGACTTCTTTCTGCTCCACAGTTCGCTCCAGGATCATCGCCGTCAGGCAGGGAGGC
 CCTCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201054 protein sequence
Red=Cloning site Green=Tags(s)

MSPAPDAAPAPASISLFDLSADAPVFQGLSLVSHAPGEALARAPRTSCSGSGERESPERKLLQGPMDISE
 KLF CSTCDQTFQNHQEQREHYKLDWHRFNLKQRLKDKPLL SALDFEKQSSTGDLSSISGSESDSASEED
 LQTLDRERATFEKLSRPPGFYPHRVLFQNAQQGFLYAYRCVLPHPQDPPEEAELLQNLQSRGPRDCVVL
 MAAAGHFAGAI FQGREVVTHKTFHRYTVRAKRGT AQGLRDARGGSPHSAGANLRRYNEATLYKDVRDLA
 GPSWAKALEEAGTILLRAPRSRSLFFGGKGAPLQRGDPRLWDIPLATRRPTFQELQRVLHKLTTLHVYE
 EDPREAVRLHSPQTHWKTVREERKKPTEEEIRKICRDEKEALGQNEESPKQSGSSEGEDGFVELELVEL
 TVGTLDLCESEVLPKRRRRRNKKEKSRDQEAGAHRTLLQQTQEEEPSTQSSQAVAAPLGPLLDEAKAPG
 QPELWNALLAACRAGDVGVLKQLLAPSPADPRVLSLLSAPLGSGGFTLLHAAAAAGRGSVVRLLLEAGAD
 PTVQDSRAPPYVAADKSTRNEFRFMEKNPDAYDYNKAQVPGPLTPEMEARQATRKREQAARRQREE
 QQQRQQEQEEREREERQRF AALSDREKRALAAERRLAAQLGAPTSP IPDSAIVNTRRCWSCGASLQGLTP
 FHYLDFSF CSTRCLQDHRRQAGRPSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6691_c06.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_018089

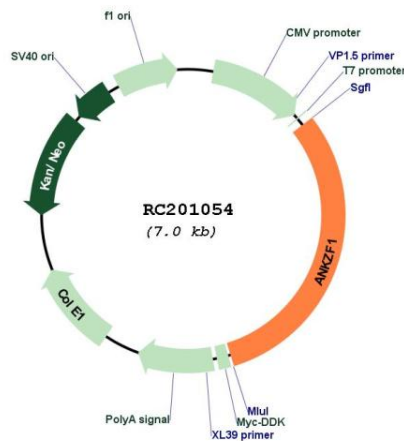
ORF Size: 2178 bp

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](#)

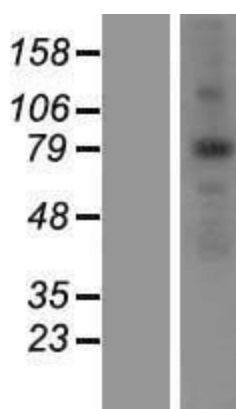
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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.
- Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
- RefSeq:** [NM_018089.3](#)
- RefSeq Size:** 2594 bp
- RefSeq ORF:** 2181 bp
- Locus ID:** 55139
- UniProt ID:** [Q9H8Y5](#)
- Cytogenetics:** 2q35
- MW:** 80.9 kDa
- Gene Summary:** Plays a role in the cellular response to hydrogen peroxide and in the maintenance of mitochondrial integrity under conditions of cellular stress (PubMed:28302725). Involved in the endoplasmic reticulum (ER)-associated degradation (ERAD) pathway (By similarity). [UniProtKB/Swiss-Prot Function]

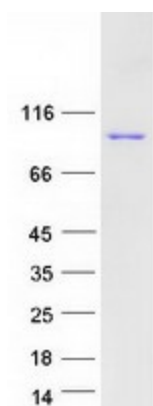
Product images:



Circular map for RC201054



Western blot validation of overexpression lysate (Cat# [LY413331]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201054 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANKZF1 protein (Cat# [TP301054]). The protein was produced from HEK293T cells transfected with ANKZF1 cDNA clone (Cat# RC201054) using MegaTran 2.0 (Cat# [TT210002]).