

## Product datasheet for **RC200140**

### **ANKZF1 (NM\_001042410) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ANKZF1 (NM_001042410) 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:

>RC200140 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTCGCGCGCTCCAGATGCAGCCCCGGCTCCTGCGTCGATCTCCCTGTTTGACCTCAGCGCGGATGCTC  
CGGTCTTTCAGGGCCTGAGCCTGGTGAGCCACGCGCCTGGGGAGGCTCTGGCCCGGGCTCCGCGTACTTC  
CTGTTCAGGCTCAGGGGAGAGAGAAAGCCAGAAAGAAAGCTACTCCAGGTCCTATGGATATTTACAGAG  
AAGTTATTTTGTCAACTTGTGACCAGACCTTCCAGAACCACCAAGAACAGAGGGAACATTATAAGCTTG  
ACTGGCATCGGTTAACTAAAGCAACGCTCAAGGACAAGCCTCTCTGTCTGCCCTGGACTTTGAAAA  
GCAGAGCTCCACAGGAGATCTTCCAGCATCTCGGGATCAGAAGACTCAGACTCAGCCAGTGAGGAGGAC  
TTGCAGACACTGGATCGGGAGAGGGCTACATTTGAGAAGTTGAGCCGACCCCGAGCTTTTACCCTCATC  
GAGTTCTTTCCAGAATGCCAGGGCCAGTTTCTTTATGCCTACCGCTGTGTCTAGGCCCTCATCAGGA  
TCCCCCAGAAGAGGCAGAACTGTGCTACAGAACCTGCAAAGTAGAGGTCCAGAGACTGCGTGGTGCTC  
ATGGCTGCAGCTGGGCACCTTTGCTGGTGCTATATTTCAAGGAAGAGAAGTGGTGACACACAAAACCTTTTC  
ACCGCTATACGGTTCGGGCCAAGCGGGGCACAGCCAGGGGCTTCGGGATGCCCGAGGTGGGCCATCACA  
CTCTGCTGGAGCCAACCTGAGGGCCTACAATGAAGCCACACTATATAAGGATGTTCTGTGACTGCTGGCA  
GGGCCAAGCTGGGCTAAGGCGCTGGAGGAGGCTGGTACAATACTGTTGCTGCTCCCCGCTCTGGCCGGT  
CTTTGTTCTTTGGAGGCAAGGGAGCACCCCTGCAAAGGGGGATCCCCGACTTTGGGATATCCCCCTCGC  
CACCCGCAGACCCACCTTCCAAGAGCTACAGCGTGTGCTCCATAAGCTGACCACTTTGCATGTCTATGAA  
GAAGACCTCGGAAGCAGTCAGACTGCACCTCAGACACACTGGAAAACAGTAAGAGAGGAGAGAA  
AGAAGCCTACTGAGGAAGAAATAAGAAAGATCTGCAGGGATGAAAAGGAAGCGCTGGGGCAGAATGAGAA  
ATCTCCCAAACAGGGTTACAGGTCGGAGGGAGAAGATGGCTTTCAGGTAGAGTTGGAGCTAGTGGAGTTG  
ACTGTGGGACTCTGGATCTTTGTGAGTCTGAAGTATTGCCAAGCGGAGGAGGAGAAAAAGGAATAAGA  
AGGAGAAAAGCCGAGACCAGGAGGCTGGGGCACATCGACTCTTCTCCAGCAAACCAAGAAGAGGAGCC  
TTCCACACAGTCATCCCAGGCAGTTGCTGCCCCCTTGGGCCCTTGTGGATGAGGCCAAAGCCCCTGGT  
CAGCCAGAGCTCTGGAATGCACTGCTTGTGCTTGCAGCTGGAGATGTTGGAGTGCTAAAGCTGCAGC  
TAGCTCCCAGCCCTGCAGACCCTAGAGTTCTGTCTGCTCAGTGCCCCCTTGGGCTCCGGTGGCTTTAC  
TCTCTGCATGCAGCAGCTGCAGCTGGAAGAGGCTCAGTGGTTCGTCTGCTGCTGGAAGCAGGTGCTGAC  
CCCCTGTGCAGGACTCTCGGGCCCGGCCACCTTATACTGTTGCGGCTGACAAATCAACACGTAATGAGT  
TCCGAAGTTTATGGAGAAGAATCCAGATGCCTACGATTACAACAAGGCTCAGGTGCCAGGACCATTGAC  
ACCAGAAATGGAGGCACGGCAGGCTACACGGAAGGGAGCAGAAGGCAGCCCGGCGGCAACGGGAGGAA  
CAGCAGCAGAGGCAGCAGGAGCAGGAGGAGCGTGAACGAGAAGAGCAGCGGCGATTTGCCGCCCTCAGTG  
ACCGAGAGAAGAGAGCTCTGGCTGCAGAGCGCCGACTCGCTGCCAGTTGGGAGCCCTACCTCTCCAAT  
CCCTGACTCTGCAATCGTCAATACTCGACGCTGCTGGAGTTGTGGGGCATCCCTCCAAGGCTGACTCCC  
TTTCACTACCTCGACTTCTTTCTGTCTCCACAGTTCGCTCCAGGATCATCGCCGTCAGGCAGGGAGGC  
CCTCTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC200140 protein sequence  
Red=Cloning site Green=Tags(s)

MSPAPDAAPAPASISLFDLSADAPVFQGLSLVSHAPGEALARAPRTSCSGSGERESPERKLLQGPMDISE  
 KLF CSTCDQTFQNHQEQREHYKLDWHRFNLKQRLKDKPLL SALDFEKQSSTGDLSSISGSESDSASEED  
 LQTLDRERATFEKLSRPPGFYPHRVLFQNAQQQLYAYRCVLPHPQDPPEEAELLLQNLQSRGPRDCVVL  
 MAAAGHFAGAI FQGREVVTHKTFHRYTVRAKRGTAQGLRDARGGSPHSAGANLRRYNEATLYKDVRDLA  
 GPSWAKALEEAGTILLRAPRSGRSLFFGGKGA PLQRGDPRLWDIPLATRRPTFQELQRV LHKLTTLHVYE  
 EDPREAVRLHSPQTHWKT VREERKKPTEEEIRKICRDEKEALGQNEE SPKQSGSSEGEDGFVELELVEL  
 TVGTLDLCESEVLPKRRRRRNKKEKSRDQEAGAHRTLLQQTQEEEPSTQSSQAVAAPLGPLLDEAKAPG  
 QPELWNALLAACRAGDVGVLKLQLAPSPADPRVLSLLSAPLGSGGFTLLHAAAAAGRGSVVRLLLEAGAD  
 PTVQDSRAPPYVAADKSTRNEFRFMEKNPDAYDYNKAQVPGPLTPEMEARQATRKREQAARRQREE  
 QQQRQQEQEEREREERQRF AALSDREKRALAAERRLAAQLGAPTSP IPDSAIVNTRRCWSCGASLQGLTP  
 FHYLDFSF CSTRCLQDHRRQAGRPSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6714\\_e07.zip](https://cdn.origene.com/chromatograms/mk6714_e07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

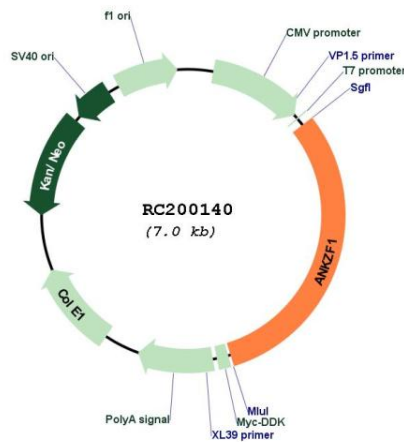
**ACCN:** NM\_001042410

**ORF Size:** 2178 bp

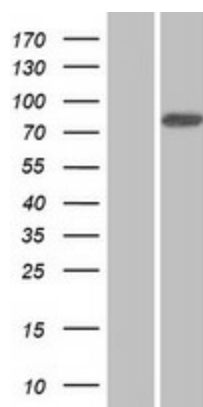
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

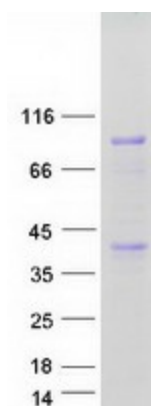
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001042410.2</a></u>
<b>RefSeq Size:</b>	2521 bp
<b>RefSeq ORF:</b>	2181 bp
<b>Locus ID:</b>	55139
<b>UniProt ID:</b>	<u><a href="#">Q9H8Y5</a></u>
<b>Cytogenetics:</b>	2q35
<b>MW:</b>	80.9 kDa
<b>Gene Summary:</b>	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 RC200140



Western blot validation of overexpression lysate (Cat# [LY420885]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200140 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANKZF1 protein (Cat# [TP300140]). The protein was produced from HEK293T cells transfected with ANKZF1 cDNA clone (Cat# RC200140) using MegaTran 2.0 (Cat# [TT210002]).