

## Product datasheet for **RC223824**

### **IKZF3 (NM\_183232) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_183232) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IKZF3
Synonyms:	AIO; AIOLOS; ZNFN1A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC223824 representing NM\_183232  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGATATACAACAAATGCGGAAGTAAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAGTGCAG  
 CGGTTTTGAATGACTACAGTTTAAACAAATCTCATGAAATGGAATGTGGACAGTGGAGAAGGCCAGC  
 CAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTAAAAGATGAATACAGTAAAAGAGATGAGAAT  
 GTTTTAAAGTCAAGCCCATGGGAAATGCAGAAGAGCCTGAAATCCCTTACAGCTATTCAAGAGAAATATA  
 ATGAATATGAAAACATTAAGTTGGAGAGACATGTTGTCTCATTGATAGTGCAGGCCAACCAGTGGAAA  
 GATGAACTGCGATGTGTGTGGATTATCCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCAT  
 ACTGGTGAACGCCATTCCAGTGAATCAGTGTGGGCATCTTTACTCAGAAAGTAACTCCTCCGCC  
 ACATTAAGTGCACACAGGGGAAAAACCTTTAAGTGTCACTCTGCAACTATGCATGCCAAGAAGAGA  
 TCGCCTCACGGGCATCTTAGGACACATCTGGTGAAGCGCCACTGCTTTGATGTCAACTATAATTCA  
 AGTTACATGTATGAGAAAGAGAGTGAAGCTCATACAGACCCGCATGATGGACCAAGCCATCAATAACGCCA  
 TCAGCTATCTTGGCGCCGAGCCCTGCGCCCTTGGTCCAGACACCGCCTGCTCCCACCTCGGAGATGGT  
 TCCAGTTATCAGCAGCATGTATCCCATAGCCCTCACCCGGGTGAGATGTCAAACGGTGCCTCAAGAG  
 CTGGAAGAAAAGCATCCACCTTCCAGAGAAGAGCGTGCCTTCTGAGAGAGGCCCTCTCTCCAACAATA  
 GTGGCCACGACTCCACGGACACTGACAGCAACCATGAAGAAGCCAGAATCACATCTATCAGCAAAATCA  
 CATGGTCTGTCTCGGGCCGCAATGGGATGCCACTTCTGAAGGAGGTTCCCGCTTACGAACTCCTC  
 AAGCCCCCGCCATCTGCCAAGAGACTCCGTCAAAGTGTCAACAAGGAAGGGGAGGTGATGGATGTGT  
 ATCGGTGTGACCACTGCCGCTCTCTCCTGGACTATGTGATGTTACGATTACATGGGCTGCCACGG  
 CTCCCGTGACCTTTTCGAGTGAACATGTGTGGATATCGAAGCCATGATCGGTATGAGTTCTCGTCTCAC  
 ATAGCCAGAGGAGAACACAGAGCCCTGCTGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC223824 representing NM\_183232  
 Red=Cloning site Green=Tags(s)

MEDIQTNALKSTQEQSVAESA AVLNDYSLTKSHEMENVDSGEGPANEDEDIGDDSMKVKEYSERDEN  
 VLKSEPMGNAEEPEIPYSYSREYNEYENIKLERHVVSFDSSRPTSGKMNCDCVGLSCISFNVLMVHKRSH  
 TGERPFQCNQCGASFQKGNLLRHIKLTGKPFKCHLCNYACQRRDALTGHLRTHSGEKRHCFDNYNS  
 SYMYEKESELIQTRMMDQAINNAISYLGAEALRPLVQTPAPTSEMVPVISSMYPIALTRAEMSNGAPQE  
 LEKKSIIHLEKSVPSERGLSPNNSGHDSTDTDSNHEERQNHIIYQQNHMVL SRARNGMPLLEKVP RSYELL  
 KPPPICPRDSVKVINKEGEVMDVYRCDHCRVLF LDYVMFTIHMGC HFRDPFECNMCGYRSHDRYEFSSH  
 IARGEHRALLK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8059\\_d08.zip](https://cdn.origene.com/chromatograms/mk8059_d08.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_183232

**ORF Size:** 1293 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\\_183232.3](#)

**RefSeq Size:** 2203 bp

**RefSeq ORF:** 1296 bp

**Locus ID:** 22806

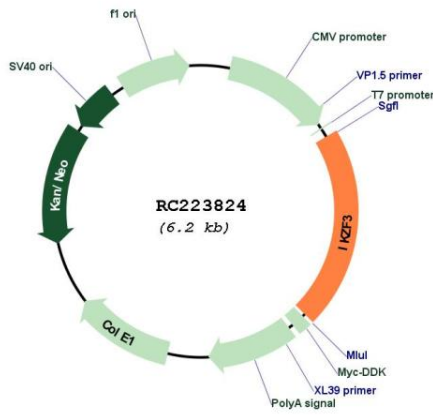
**UniProt ID:** [Q9UKT9](#)

**Cytogenetics:** 17q12-q21.1

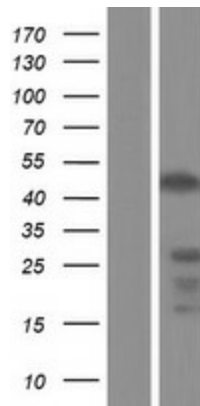
**MW:** 48.9 kDa

**Gene Summary:** This gene encodes a member of the Ikaros family of zinc-finger proteins. Three members of this protein family (Ikaros, Aiolos and Helios) are hematopoietic-specific transcription factors involved in the regulation of lymphocyte development. This gene product is a transcription factor that is important in the regulation of B lymphocyte proliferation and differentiation. Both Ikaros and Aiolos can participate in chromatin remodeling. Regulation of gene expression in B lymphocytes by Aiolos is complex as it appears to require the sequential formation of Ikaros homodimers, Ikaros/Aiolos heterodimers, and Aiolos homodimers. Several alternative transcripts encoding different isoforms have been described, as well as some non-protein coding variants. [provided by RefSeq, Apr 2012]

**Product images:**



Circular map for RC223824



Western blot validation of overexpression lysate (Cat# [LY405192]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223824 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).