

## Product datasheet for **RC234090**

### **IKZF3 (NM\_001257409) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_001257409) 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:**

>RC234090 representing NM\_001257409  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGATATACAAACAAATGCGGAAGTAAAAGCACTCAGGAGCAGTCTGTGCCCGCAGATGATTCAA  
 TGAAGTGAAAGATGAATACAGTGAAAGAGATGAGAAATGTTTTAAAGTCAGAACCCATGGGAAATGCAGA  
 AGAGCCTGAAATCCCTTACAGCTATTCAAGAGAATATAATGAATATGAAAACATTAAGTTGGAGAGACAT  
 GTTGTCTCATTGATAGTAGCAGGCCAACCCAGTGGAAAGATGAACTGCGATGTGTGTGGATTATCTGCA  
 TCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCATACTGGTGAACGCCCATTCAGTGAATCAGTG  
 TGGGGCATCTTTACTCAGAAAGGTAACCTCCTCCGCACATTAAGTGCACACAGGGGAAAAACCTTTT  
 AAGTGTCACTCTGCAACTATGCATGCCAAGAAGAGATGCGCTCACGGGGCATCTTAGGACACATTCTG  
 CAAGTGGGAGGCAAGACACATCAAAGCAGAGATGGGAAGTAAAAGAGCTCTCGTACTGGACAGATTAGC  
 AAGCAATGTGGCAAACGAAAAAGCTCAATGCCTCAGAAATTCATTGGTGAGAAGCGCCACTGCTTTGAT  
 GCAACTATAATTCAAGTTACATGTATGAGAAAGAGAGTGAGCTCATACAGACCCGCATGATGGACCAAG  
 CCATCAATAACGCCATCAGCTATCTTGGCGCCGAGCCCTGCGCCCTTGGTCCAGACACCCGCTGCTCC  
 CACCTCGGAGATGGTTCAGTTATCAGCAGCATGTATCCCATAGCCCTCACCCGGGCTGAGATGTCAAAC  
 GGTGCCCTCAAGAGCTGGAAAAGAAAAGCATCCACCTTCCAGAGAAGAGCGTGCCTTCTGAGAGAGGCC  
 TCTCTCCAACAATAGTGGCCACGACTCCACGGCACTGACAGCAACCATGAAGAACGCCAGAATCACAT  
 CTATCAGCAAAATCACATGGTCTGTCTCGGGCCGCAATGGGATGCCACTTCTGAAGGAGGTTCCCGC  
 TCTTACGAACTCCTCAAGCCCCCGCCATCTGCCAAGAGACTCCGTCAAAGTATCAACAAGGAAGGGG  
 AGGTGATGGATGTGTATCGGTGTGACCACTGCCGCGCTCTTCTGACTATGTGATGTTACAGATTCA  
 CATGGGCTGCCACGGCTTCCGTGACCTTTCGAGTGTAACATGTGTGGATATCGAAGCCATGATCGGTAT  
 GAGTTCTCGTCTACATAGCCAGAGGAGAACACAGAGCCCTGCTGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234090 representing NM\_001257409  
 Red=Cloning site Green=Tags(s)

MEDIQTNAELKSTQEQSVPADDSMKVKDEYSERDENVLKSEPMGNAEPEIPYSYSREYNEYENIKLERH  
 VVSFDSSRPTSGKMNCVCLSCISFNVLVHVKRSHTGERPFQCNQCGASFQKGNLLRHKLHTGEKPF  
 KCHLCNYACQRRDALTGHLRTHSASAEARHIKAEMGSERALVLDRLASNVAKRKSMPQKFIGEKRHCFD  
 VNYNSSYMEKESELIQTRMMDQAINNAISYLGAEALRPLVQTPPAPTSEMVPVISSMYPIALTRAEMSN  
 GAPQELEKKSIIHLPEKSVPSERGLSPNNSGHDSTDTDSNHEERQNHIIYQQNHMVL SRARNGMPLLKEVPR  
 SYELLKPPPICPRDSVKVINKEGEVMDVYRCDHCRVLF LDYVMFTIHMGC HGRDPFECNMCGYRSHDRY  
 EFSSHIARGEHRALLK

**TR**TRPLE**QKLISEEDLAANDILDYKDDDDK**V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001257409

**ORF Size:** 1308 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\\_001257409.2](#)

**RefSeq Size:** 9467 bp

**RefSeq ORF:** 1311 bp

**Locus ID:** 22806

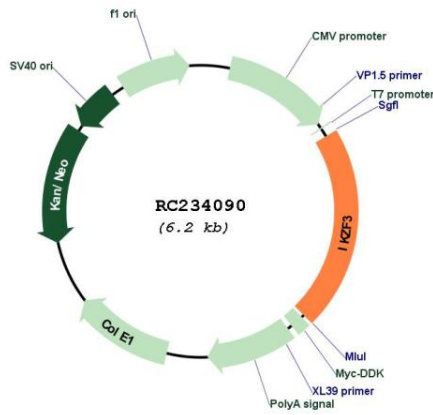
**UniProt ID:** [Q9UKT9](#)

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

**MW:** 50.2 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 RC234090