

## Product datasheet for **RC234209**

### **IKZF3 (NM\_001257408) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_001257408) 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:**

>RC234209 representing NM\_001257408  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGATATACAAACAAATGCGGAAGTAAAAGCACTCAGGAGCAGTCTGTGCCCGCAGATGATTCAA  
 TGAAGTGAAAGATGAATACAGTGAAAGAGATGAGAATGTTTTAAAGTCAGAACCCTAGGAAATGCAGA  
 AGAGCCTGAAATCCCTTACAGCTATTCAAGAGAATATAATGAATATGAAAACATTAAGTTGGAGAGACAT  
 GTTGTCTCATTGATAGTAGCAGGCCAACCCAGTGGAAAGATGAACTGCGATGTGTGTGGATTATCCTGCA  
 TCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCATACTGGTGAACGCCCATTCAGTGAATCAGTG  
 TGGGGCATCTTTACTCAGAAAGGTAACCTCCTCCGCACATTAAGTGCACACAGGGGAAAAACCTTTT  
 AAGTGTCACCTCTGCAACTATGCATGCCAAGAAGAGATGCGCTCACGGGCATCTTAGGACACATTCTG  
 TGGAGAAACCCTACAAATGTGAGTTTTGTGGAAGGAGTTACAAGCAGAGAAGTCCCTTGAGGAGCACAA  
 GGAGCGTGCCGTACATTTCTCAGAGCACTGACCCAGGGGCACTGCAAGTGGGAGGCAAGACACATC  
 AAAGCAGAGATGGGAAGTGAAAGAGCTCTCGTACTGGACAGATTAGCAAGCAATGTGGCAAAACGAAAA  
 GCTCAATGCCTCAGAAATTCATTGGTGAGAAGCGCCACTGCTTTGATGTCAACTATAATTCAAGTTACAT  
 GTATGAGAAAGAGAGTGAGCTCATAAGACCCGCATGATGGACCAAGCCATCAATAACGCCATCAGCTAT  
 CTTGGCGCGAAGCCCTGCGCCCTTGGTCCAGACACCGCCTGCTCCACCTCGGAGATGGTTCCAGTTA  
 TCAGCAGCATGTATCCATAGCCCTCACCCGGCTGAGATGTCAAACGGTGCCCTCAAGAGCTGGAAAA  
 GAAAAGCATCCACCTCCAGAGAAGAGCGTGCCTTCTGAGAGAGGCTCTCTCCAACAATAGTGGCCAC  
 GACTCCACGGCACTGACAGCAACCATGAAGAAGCCAGAATCACATCTATCAGCAAAATCACATGGTCC  
 TGCTCGGGCCCGCAATGGGATGCCACTTCTGAAGGAGTTCCCGCTCTTACGAACTCCTCAAGCCCCC  
 GCCCATCTGCCCAAGAGACTCCGTCAAAGTGATCAACAAGGAAGGGGAGGTGATGGATGTGTATCGGTGT  
 GACCACTGCCCGCTCCTTCTCGGACTATGTGATGTTACGATTACATGGGCTGCCACGGCTTCCGTG  
 ACCCTTTCGAGTGAACATGTGTGGATATCGAAGCCATGATCGGTATGAGTTCTCGTCTCATATGCCAG  
 AGGAGAACACAGAGCCCTGCTGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234209 representing NM\_001257408  
 Red=Cloning site Green=Tags(s)

MEDIQTNAELKSTQEQSVPADDSMKVKDEYSERDENLKVSEPMGNAEPEIPYSYSREYNEYENIKLERH  
 VVSFSSRPTSGKMNCVCLSCISFNVLMVHKRSHTGERPFQCNQCGASFTQKGNLLRHIKLTGEKPF  
 KCHLCNYACQRRDALTGHLRTHSVEKPYKCEFCGRSYKQRSSLEEHKERCRTFLQSTDPGDTASAEARHI  
 KAEMGSERALVLDRLASNVAKRKSMPQKFIDGEKRHCFDYNYNSSYMYEKESELIQTRMMDQAINNAISY  
 LGAEALRPLVQTPPAPTSEMVPVISSMYPIALTRAEMSNAPQLEKKSIIHLPEKSVPSERGLSPNNSGH  
 DSTDSDSNHEERQNHIIYQQNHMVL SRARNGMPLLEKVPVRSYELLKPPPICPRDSVKVINKEGEVMDVYRC  
 DHCRLVFLDYVMFTIHMGCHEFRDPFECNMGYRSHDRYEFSSHIARGEHRALLK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_001257408

**ORF Size:** 1425 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\\_001257408.2](#)
**RefSeq Size:** 9584 bp

**RefSeq ORF:** 1428 bp

**Locus ID:** 22806

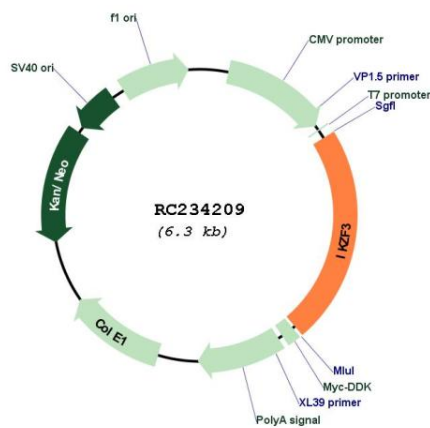
**UniProt ID:** [Q9UKT9](#)

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

**MW:** 54.9 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 RC234209