

Product datasheet for **RC219642**

IKZF3 (NM_183228) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_183228) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC219642 representing NM_183228
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGATATACAACAAATGCGGAAGTAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAGTGCAG
 CGGTTTTGAATGACTACAGTTTAAACAAATCTCATGAAATGGAAAATGTGGACAGTGGAGAAGGCCAGC
 CAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTAAAGATGAATACAGTAAAGAGATGAGAAT
 GTTTTAAAGTCAGAACCCATGGGAAATGCAGAAGAGCCTGAAATCCCTTACAGCTATTCAAGAGAAATATA
 ATGAATATGAAAACATTAAGTTGGAGAGACATGTTGTCTCATTGATAGTGCAGGCCAACCAGTGGAAA
 GATGAAGTGCATGTGTGTGGATTATCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCAT
 ACTGTGGAGAAACCTACAATGTGAGTTTGTGGAAGGAGTTACAAGCAGAGAAGTCCCTTGAGGAGC
 ACAAGGAGCGCTCCGTACATTTCTTCAGAGCACTGACCCAGGGGACACTGCAAGTCCGGAGGCAAGACA
 CATCAAAGCAGAGATGGGAAGTAAAGAGCTCTCGTACTGGACAGATTAGCAAGCAATGTGGCAAAACGA
 AAAAGCTCAATGCCTCAGAAATTCATTGGTGAGAAGCGCCACTGCTTTGATGTCAACTATAATTTCAAGTT
 ACATGTATGAGAAAGAGAGTGAGCTCATACAGACCCGCATGATGGACCAAGCCATCAATAACGCCATCAG
 CTATCTTGGCGCGAAGCCCTGCGCCCTTGGTCCAGACACCGCTGCTCCACCTCGGAGATGGTTCCA
 GTTATCAGCAGCATGTATCCCATAGCCCTACCCGGGCTGAGATGTCAAACGGTGGCCCTCAAGAGCTGG
 AAAAGAAAAGCATCCACCTTCCAGAGAAGAGCGTGCCTTCTGAGAGAGGCTCTCTCCCAACAATAGTGG
 CCAGACTCCACGGCACTGACAGCAACCATGAAGAAGCCAGAATCACATCTATCAGCAAAATCACATG
 GTCCTGTCTCGGGCCCGCAATGGGATGCCACTTCTGAAGGAGTTCCCGCTCTTACGAAGTCTCAAGC
 CCCCAGCCATCTGCCAAGAGACTCCGTCAAAGTGTCAACAAGGAAGGGGAGGTGGATGTGTATCG
 GTGTGACCACTGCCGCTCCTTCTCCTGGACTATGTGATGTTACAGATTACATGGGCTGCCACGGCTTC
 CGTGACCTTTTCAGTGTAAATGTGTGGATATCGAAGCCATGATCGGTATGAGTTCTCGTCTCACATAG
 CCAGAGGAGAACACAGAGCCCTGCTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219642 representing NM_183228
 Red=Cloning site Green=Tags(s)

MEDIQTNALKSTQEQSVAESA AVLNDYSLTKSHEMENVDSGEGPANEDEDIGDDSMKVKDEYSERDEN
 VLKSEPMGNAEPEIPYSYSREYNEYENIKLERHVVSFDSSRPTSGKMNCVCGLSGISFNVLMVHKRSH
 TVEKPYKCEFCGRSYKQRSLSLEEHKERCRTFLQSTDPGDTASAEARHIKAEMGSERALVLDRLASNVAKR
 KSSMPQKFIGEKRHCFD VNYNSSMYEKESELIQTRMMDQAINNAISYLGAEALRPLVQTPPAPTSEMVP
 VISSMYPIALTRAEMSNAPQELEKSIHLPEKSVPSERGLSPNNSGHDSTDTDSNHEERQNHIIYQQNHM
 VLSRARNMPLLKEVPRSYELLKPPPICPRDSVKVINKEGEVMDVYRCDHCRVFLDYVMFTIHMGC HGF
 RDPFECNMCGYRSHDRYEFSSHIARGEHRALLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8061_a05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_183228

ORF Size: 1359 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_183228.3](#)

RefSeq Size: 2269 bp

RefSeq ORF: 1362 bp

Locus ID: 22806

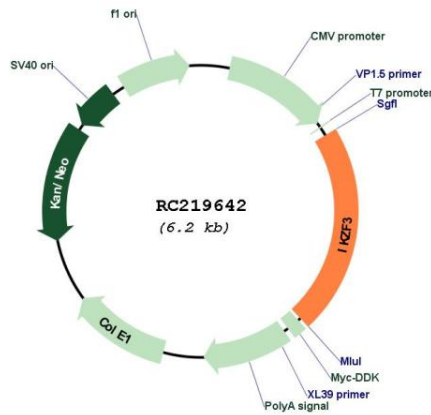
UniProt ID: [Q9UKT9](#)

Cytogenetics: 17q12-q21.1

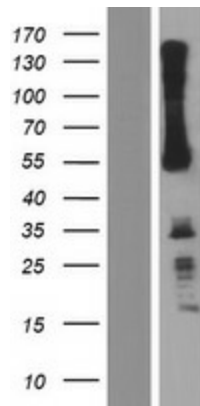
MW: 51.5 kDa

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 RC219642



Western blot validation of overexpression lysate (Cat# [LY405188]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219642 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).