

Product datasheet for **RC207547**

IKZF3 (NM_012481) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | IKZF3 (NM_012481) 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:

>RC207547 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGATATACAACAATGCGGAAGTAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAGTGCAG
 CGGTTTTGAATGACTACAGTTTAAACCAATCTCATGAAATGGAAGTGTGGACAGTGGAGAAGGCCAGC
 CAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTAAAGATGAATACAGTAAAGAGATGAGAAT
 GTTTTAAAGTCAGAACCCATGGGAAATGCAGAAGAGCCTGAAATCCCTTACAGCTATTCAAGAGAAATA
 ATGAATATGAAAACATTAAGTTGGAGAGACATGTTGTCTCATTGATAGTGCAGGCCAACCAGTGGAAA
 GATGAACTGCGATGTGTGTGGATTATCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCAT
 ACTGGTGAACGCCATTCCAGTGAATCAGTGTGGGCATCTTTACTCAGAAAGTAACTCCTCCGCC
 ACATTAAGTGCACACAGGGGAAAAACCTTTAAGTGTCACTCTGCAACTATGCATGCCAAGAAGAGA
 TGGCCTCACGGGCATCTTAGGACACATCTGTGGAGAAACCCTACAAATGTGAGTTTTGTGAAGGAGT
 TACAAGCAGAGAAGTCCCTTGAGGAGCACAAGGAGCGCTGCCGTACATTTCTTACAGAGCACTGACCCAG
 GGGACTGCAAGTGGGAGGCAAGACACATCAAAGCAGAGATGGGAAGTAAAGAGCTCTCGTACTGGA
 CAGATTAGCAAGCAATGTGGCAAAACGAAAAGCTCAATGCCTCAGAAATTCATTGGTGAGAAGGCCAC
 TGCTTTGATGTCAACTATAATCAAGTTACATGTATGAGAAAGAGAGTGAAGTCTACAGACCCGCATGA
 TGGACCAAGCCATCAATAACGCCATCAGCTATCTTGGCGCGAAGCCCTGCGCCCTTGGTCCAGACACC
 GCCTGCTCCACCTCGGAGATGGTTCAGTTATCAGCAGCATGTATCCATAGCCCTCACCCGGGCTGAG
 ATGTCAAACGGTCCCTCAAGAGCTGAAAAGAAAAGCATCCACCTCCAGAGAAGAGCGTGCCTTCTG
 AGAGAGCCCTCTCTCCAACAATAGTGGCCAGCACTCCAGGACTGACAGCAACCATGAAGAAGCCCA
 GAATCACATCTATCAGCAAAATCACATGGTCTGTCTCGGGCCGCAATGGGATGCCACTTCTGAAGGAG
 GTTCCCGCTCTTACGAACCTCAAGCCCGCCCATCTGCCAAGAGACTCCGTCAAAGTGTATCAACA
 AGGAAGGGGAGGTGATGGATGTGTATCGGTGTGACCACTGCCGCTCCTCTTCTGGACTATGTGATGTT
 CACGATTCACATGGGCTGCCACGGCTTCCGTGACCCTTTCGAGTGAACATGTGTGGATATCGAAGCCAT
 GATCGGTATGAGTTCTCGTCTCACATAGCCAGAGGAGAACACAGAGCCCTGCTGAAG

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RC207547 protein sequence
 Red=Cloning site Green=Tags(s)

MEDIQTNALKSTQEQSVPAESA AVLNDYSLTKSHEMENVDSGEGPANEDEDIGDDSMKVKDEYSERDEN
 VLKSEPMGNAEPEIPYSYSREYNEYENIKLERHVVSFDSRPTSGKMNCVCGLSGISFNVLMVHKRSH
 TGERPFQCNQCGASFQKGNLLRHILHTGEKPFKCHLCNYACQRRDALTGHLRTHSVEKPYKCEFCGRS
 YKQRSSLEEHKERCRTFLQSTDPGDTASAEARHIKAEMGSERALVLDRLASNVAKRKSSMPQKFIGEKRH
 CFDVNYNSSMYEKESELIQTRMMDQAINNAISYLGAEALRPLVQTPAPTSEMVPVISSMYPIALTRAE
 MSNGAPQELEKKSIIHLPEKSVPSERGLSPNNSGHDSTDTDSNHEERQNHIIYQNHMVL SRARNGMPLLKE
 VPRSYELLKPPPICPRDSVKVINKEGEVMDVYRCDHCRVFLDYVMFTIHMGCCHGFRDPFECNMCGYRSH
 DRYEFSSHIARGEHRALLK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6021_b12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_012481

ORF Size: 1527 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_012481.5](#)

RefSeq Size: 9686 bp

RefSeq ORF: 1530 bp

Locus ID: 22806

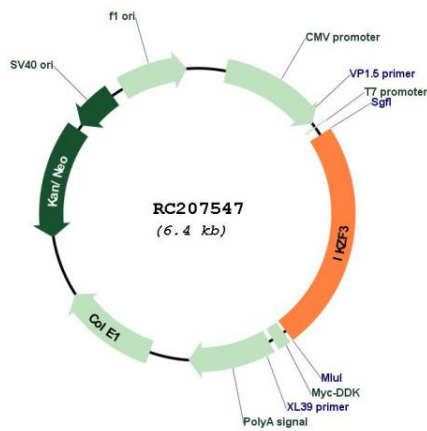
UniProt ID: [Q9UKT9](#)

Cytogenetics: 17q12-q21.1

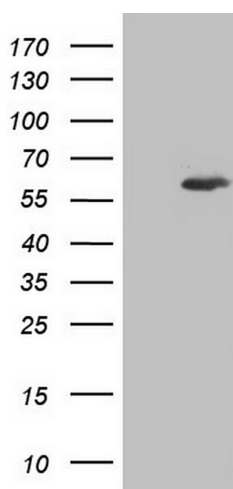
MW: 58 kDa

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]

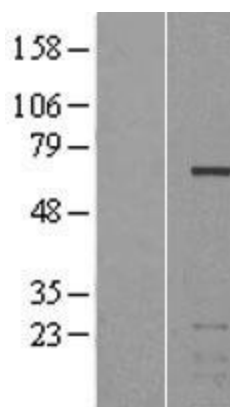
Product images:



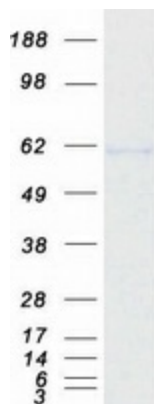
Circular map for RC207547



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IKZF3 (Cat# RC207547, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-*IKZF3* (Cat# [TA804396]). Positive lysates [LY402225] (100ug) and [LC402225] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402225]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207547 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified *IKZF3* protein (Cat# [TP307547]). The protein was produced from HEK293T cells transfected with *IKZF3* cDNA clone (Cat# RC207547) using MegaTran 2.0 (Cat# [TT210002]).