

Product datasheet for RC219750

IKZF3 (NM_183231) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_183231) 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)
ORF Nucleotide Sequence:	>RC219750 representing NM_183231 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGATATACAAACAAATGCGGAAGTAAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAAGTGCAG
CGGTTTTGAATGACTACAGTTTAAACCAATCTCATGAAATGGAAAATGTGGACAGTGGAGAAGGCCACGC
CAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTAAAAGATGAATACAGTAAAAGAGATGAGAAT
GTTTTAAAGTCAAACCCATGGGAAATGCAGAAGAGCCTGAAATCCCTTACAGCTATTCAAGAGAATATA
ATGAATATGAAAACATTAAGTTGGAGAGACATGTTGTCTCATTGATAGTAGCAGGCCAACCAAGTGGAAA
GATGAACTGCGATGTGTGTGGATTATCCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCAT
ACTGCAAGTGGGAGGCAAGACACATCAAAGCAGAGATGGGAAGTAAAAGAGCTCTCGTACTGGACAGAT
TAGCAAGCAATGTGGCAAAACGAAAAGCTCAATGCCTCAGAAATTCATTGGTGAGAAGCGCCACTGCTT
TGATGTCAACTATAATCAAGTTACATGTATGAGAAAAGAGAGTGAGCTCATACAGACCCGCATGATGGAC
CAAGCCATCAATAACGCCATCAGCTATCTTGGCGCCGAAGCCCTGCGCCCTTGGTCCAGACACCCGCTG
CTCCCACCTCGGAGATGGTTCAGTTATCAGCAGCATGTATCCCATAGCCCTCACCCGGGCTGAGATGTC
AAACGGTGCCCTCAAGAGCTGGAAAAGAAAAGCATCCACCTTCCAGAGAAGAGCGTGCCTTCTGAGAGA
GGCCTCTCTCCAACAATAGTGGCCACGACTCCACGGACACTGACAGCAACCATGAAGAAGCCAGAAATC
ACATCTATCAGCAAAAATCACATGGTCTGTCTCGGGCCGCAATGGGATGCCACTTCTGAAGGAGTTCC
CCGCTCTTACGAACTCCTCAAGCCCGCCCATCTGCCCAAGAGACTCCGTCAAAGTGATCAACAAGGAA
GGGGAGGTGATGGATGTGTATCGGTGTGACCCTGCCCGTCTCTTCTGGACTATGTGATGTTACGGA
TTCACATGGGCTGCCACGGCTTCCGTGACCCTTTCGAGTGAACATGTGTGGATATCGAAGCCATGATCG
GTATGAGTTCTCGTCTCACATAGCCAGAGGAGAACACAGAGCCCTGCTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219750 representing NM_183231
 Red=Cloning site Green=Tags(s)

MEDIQTNALKSTQEQSVPAESA AVLNDYSLTKSHEMENVDSGEGPANEDEDIGDDSMKVKDEYSERDEN
 VLKSEPMGNAEEPEIPYSYSREYNEYENIKLERHVVSFDSSRPTSGKMNCDCVGLSCISFNVLMVHKRSH
 TASAEARHIKAEMGSERALVLDRLASNAKRKSSMPQKF IGEKRHCFDVNYNSSYMEKESELIQTRMMD
 QAINNAISYLGAEALRPLVQTPPAPTSEMVPVISSMYPIALTRAEMSNGAPQELEKKSIIHLPEKSVP SER
 GLSPNNSGHDSTDTDSNHEERQNHIIYQQNHMVL SRARNGMPLLKEVPRSYELLKPPPICPRDSVKVINKE
 GEVMDVYRCDHCRVFLFDYVMFTIHMGC HGRDPFECNMCGYRSHDRYEFSSHIARGEHRALLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_183231

ORF Size: 1242 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_183231.3](#)

RefSeq Size: 2152 bp

RefSeq ORF: 1245 bp

Locus ID: 22806

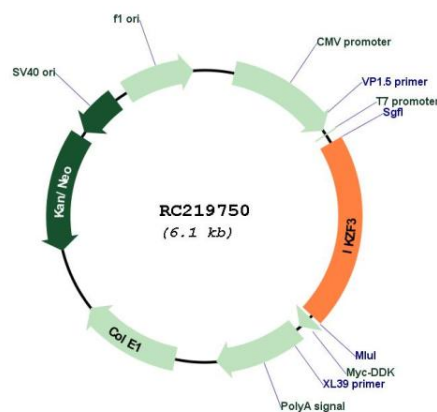
UniProt ID: [Q9UKT9](#)

Cytogenetics: 17q12-q21.1

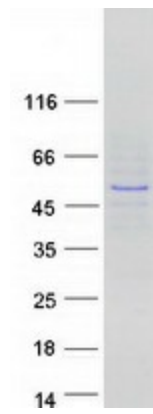
MW: 46.8 kDa

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 RC219750



Coomassie blue staining of purified IKZF3 protein (Cat# [TP319750]). The protein was produced from HEK293T cells transfected with IKZF3 cDNA clone (Cat# RC219750) using MegaTran 2.0 (Cat# [TT210002]).