

Product datasheet for **RG219693**

IKZF3 (NM_183229) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_183229) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IKZF3
Synonyms:	AIO; AIOLOS; ZNFN1A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219693 representing NM_183229
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGATATACAACAAATGCGGAAGTAAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAGTGCAG
 CGGTTTTGAATGACTACAGTTTAAACCAAATCTCATGAAATGGAAAATGTGGACAGTGGAGAAGGCCAGC
 CAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTAAAAGATGAATACAGTAAAAGAGATGAGAAT
 GTTTTAAAGTCAGAACCCATGGGAAATGCAGAAGAGCCTGAAATCCCTTACAGCTATTCAAGAGAAATATA
 ATGAATATGAAAACATTAAGTTGGAGAGACATGTTGTCTCATTGATAGTGCAGGCCAACCCAGTGGAAA
 GATGAACTGCGATGTGTGTGGATTATCCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCAT
 ACTGGTGAACGCCATTCCAGTGAATCAGTGTGGGCATCTTTACTCAGAAAGGTAACCTCCTCCGCC
 ACATTAAGTGCACACAGGGGAAAAACCTTTAAGTGTCACTCTGCAACTATGCATGCCAAGAAGAGA
 TGCGCTCACGGGCATCTTAGGACACATCTGCAAGTGGGAGGCAAGACACATCAAAGCAGAGATGGGA
 AGTGAAGAGCTCTCGTACTGGACAGATTAGCAAGCAATGTGGCAAAACGAAAAAGCTCAATGCCTCAGA
 AATTCATTGGTGAGAAGCGCCACTGCTTTGATGTCAACTATAATTCAAGTTACATGTATGAGAAAGAGAG
 TGAGCTCATACAGACCCGCATGATGGACCAAGCCATCAATAACGCCATCAGCTATCTTGGCGCCGAAGCC
 CTGCGCCCTTGGTCCAGACACCCGCTGCTCCACCTCGGAGATGGTTCAGTTATCAGCAGCATGTATC
 CCATAGCCCTCACCCGGGCTGAGATGTCAAACGGTGCCCTCAAGAGCTGGAAAAGAAAAGCATCCACCT
 TCCAGAGAAGAGCGTGCCTTCTGAGAGAGGCCTCTCTCCAACAATAGTGCCACGACTCCACGGACACT
 GACAGCAACCATGAAGAAGCCAGAATCACATCTATCAGCAAAATCACATGGTCTGTCTCGGGCCCGCA
 ATGGGATGCCACTTCTGAAGGAGGTTCCCGCTTTACGAACTCCTCAAGCCCCGCCACTCTGCCCAAG
 AGACTCCGTCAAAGTGATCAACAAGGAAGGGGAGGTGATGGATGTGTATCGGTGTGACCACTGCCCGCTC
 CTCTTCTGGACTATGTGATGTTACAGATTACATGGGCTGCCACGGCTTCCGTGACCTTTTCGAGTGTA
 ACATGTGTGGATATCGAAGCCATGATCGGTATGAGTTCTCGTCTCACATAGCCAGAGGAGAACACAGAGC
 CTGCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

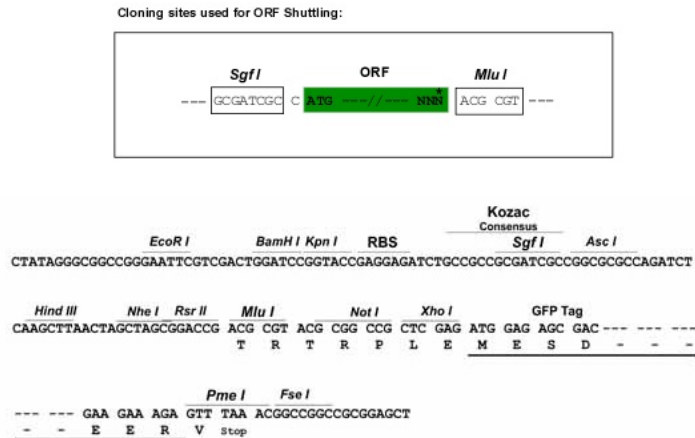
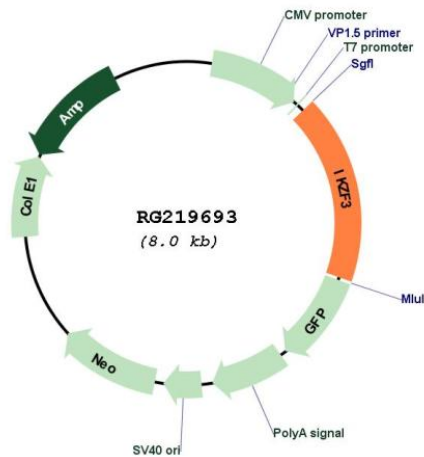
>RG219693 representing NM_183229
 Red=Cloning site Green=Tags(s)

MEDIQTNAELKSTQEVSVAESA AVLNDYSLTKSHEMENVDSGEGPANEDEDIGDDSMKVKDEYSERDEN
 VLKSEPMGNAEPEIPYSYSREYNEYENIKLERHVVSFDSSRPTSGKMNCVCGLSGISFNVLMVHKRSH
 TGERPFQCNQCGASFTQKGNLLRHKLHTGEKPFKCHLCNYACQRRDALTGHLRTHSASAEARHIKAEMG
 SERALVLDRLASNVAKRKSSMPQKFIGEKRHCFDVNYNSSYMEKESELIQTRMMDQAINNAISYLGAEA
 LRPLVQTPAPTSEMVPVLISSMYPIALTRAEMSNAPQLEKSIHLPEKSVPSERGLSPNNSGHDSTDT
 DSNHEERQNHIIYQQNHMVL SRARNGMPLLKEVPRSYELLKPPPICPRDSVKVINKEGEVMDVYRCDHCRV
 LFLDYVMFTIHMGCHEFRDPFECNMGYRSHDRYEFSSHIARGEHRALLK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Plasmid Map:


ACCN: NM_183229

ORF Size: 1410 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_183229.3](#)

RefSeq Size: 9569 bp

RefSeq ORF: 1413 bp

Locus ID: 22806

UniProt ID: [Q9UKT9](#)

Cytogenetics: 17q12-q21.1

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]