

Product datasheet for **RG219642**

IKZF3 (NM_183228) Human Tagged ORF Clone

Product data:

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

>RG219642 representing NM_183228
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGATATACAACAATGCGGAAGTAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAGTGCAG
 CGTTTTGAATGACTACAGTTTAAACCAATCTCATGAAATGGAAAATGTGGACAGTGGAGAAGGCCAGC
 CAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTAAAGATGAATACAGTAAAGAGATGAGAAT
 GTTTTAAAGTCAGAACCCATGGGAAATGCAGAAGAGCCTGAAATCCCTTACAGCTATTCAAGAGAAATA
 ATGAATATGAAAACATTAAGTTGGAGAGACATGTTGTCTCATTGATAGTGCAGGCCAACCAGTGGAAA
 GATGAACTGCGATGTGTGTGGATTATCCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCAT
 ACTGTGGAGAAACCTACAATGTGAGTTTTGTGGAAGGAGTTACAAGCAGAGAAGTTCCTTGAGGAGC
 ACAAGGAGCGCTGCCGTACATTTCTTCAGAGCACTGACCCAGGGGACACTGCAAGTGGGAGGCAAGACA
 CATCAAAGCAGAGATGGGAAGTAAAGAGCTCTCGTACTGGACAGATTAGCAAGCAATGTGGCAAAAACGA
 AAAAGCTCAATGCCTCAGAAATTCATTGGTGAGAAGCGCCACTGCTTTGATGTCAACTATAATTTCAAGTT
 ACATGTATGAGAAAGAGAGTGAGCTCATACAGACCCGCATGATGGACCAAGCCATCAATAACGCCATCAG
 CTATCTTGGCGCGAAGCCCTGCGCCCTTGGTCCAGACACCGCTGCTCCACCTCGGAGATGGTTCCA
 GTTATCAGCAGCATGTATCCCATAGCCCTACCCGGGCTGAGATGTCAAACGGTGGCCCTCAAGAGCTGG
 AAAAGAAAAGCATCCACCTTCCAGAGAAGAGCGTGCCTTCTGAGAGAGGCTCTCTCCCAACAATAGTGG
 CCAGCACTCCACGGCACTGACAGCAACCATGAAGAAGCCAGAATCACATCTATCAGCAAAATCACATG
 GTCCTGTCTCGGGCCCGCAATGGGATGCCACTTCTGAAGGAGTTCCCGCTCTTACGAATCCTCAAGC
 CCCCAGCCATCTGCCCAAGAGACTCCGTCAAAGTGAACAAGGAAGGGGAGGTGATGGATGTGTATCG
 GTGTGACCACTGCCGCTCCTCTTCTGGACTATGTGATGTTACAGATTACATGGGCTGCCACGGCTTC
 CGTGACCTTTTCAGTGTAAATGTGTGGATATCGAAGCCATGATCGGTATGAGTTCTCGTCTCACATAG
 CCAGAGGAGAACACAGAGCCCTGCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219642 representing NM_183228
 Red=Cloning site Green=Tags(s)

MEDIQTNAELKSTQEQSVAESA AVLNDYSLTKSHEMENVDSGEGPANEDIDGDDSMKVKDEYSERDEN
 VLKSEPMGNAEEPEIPYSYSREYNEYENIKLERHVVSFDSSRPTSGKMNCDEVCLSCISFNVLMVHKRSH
 TVEKPYKCEFCGRSYKQRSSLEEHKERCRTFLQSTDPGDTASAEARHIKAEMGSERALVLDRLASNVAKR
 KSSMPQKF IGEKRHCFD VNYNSSMYEKESELIQTRMMDQAINNAISYLGAELRPLVQTPPAPTSEMVP
 VISSMYPIALTRAEMSNGAPQELEKKS IHLPEKSVPSERGLSPNNSGHDSTDTDSNHEERQNHIIYQQNHM
 VLSRARNGMPLLKEVPRSYELLKPPPICPRDSVKVINKEGEVMDVYRCDHCRVFLDYVMFTIHMGCCHGF
 RDPFECNMCGYRSHDRYEFSSHIARGEHRALLK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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

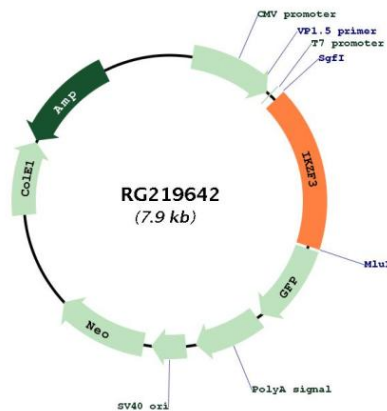
Locus ID: 22806

UniProt ID: [Q9UKT9](#)

Cytogenetics: 17q12-q21.1

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 RG219642