

Product datasheet for **RG207547**

IKZF3 (NM_012481) Human Tagged ORF Clone

Product data:

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

>RG207547 representing NM_012481
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGATATACAACAAATGCGGAAGTAAAAGCACTCAGGAGCAGTCTGTGCCCGAGAAAGTGCAG
 CGGTTTTGAATGACTACAGTTTAAACAAATCTCATGAAATGGAATGTGGACAGTGGAGAAGGCCAGC
 CAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTAAAAGATGAATACAGTAAAAGAGATGAGAAT
 GTTTTAAAGTCAGAACCCATGGGAAATGCAGAAGAGCCTGAAATCCCTTACAGCTATTCAAGAGAATATA
 ATGAATATGAAAACATTAAGTTGGAGAGACATGTTGTCTCATTGATAGTGCAGGCCAACAGTGGAAA
 GATGAACTGCGATGTGTGTGGATTATCCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCAT
 ACTGGTGAACGCCATTCCAGTGAATCAGTGTGGGCATCTTTACTCAGAAAGTAACTCCTCCGCC
 ACATTAAGTGCACACAGGGGAAAAACCTTTAAGTGTCACTCTGCAACTATGCATGCCAAAGAAGAGA
 TGGCCTCACGGGCATCTTAGGACACATCTGTGGAGAAACCCTACAAATGTGAGTTTTGTGAAGGAGT
 TACAAGCAGAGAAGTTCCTTGAGGAGCACAAGGAGCGCTGCCGTACATTTCTTCAGAGCACTGACCCAG
 GGGACTGCAAGTGGGAGGCAAGACACATCAAAGCAGAGATGGGAAGTAAAAGAGCTCTCGTACTGGA
 CAGATTAGCAAGCAATGTGGCAAAACGAAAAGCTCAATGCCTCAGAAATTCATTGGTGAGAAGGCCAC
 TGCTTTGATGTCAACTATAATCAAGTTACATGTATGAGAAAGAGAGTGAAGTCTACAGACCCGCATGA
 TGGACCAAGCCATCAATAACGCCATCAGCTATCTTGGCGCGAAGCCCTGCGCCCCTTGGTCCAGACACC
 GCCTGCTCCCACCTCGGAGATGGTTCAGTTATCAGCAGCATGTATCCATAGCCCTCACCCGGGCTGAG
 ATGTCAAACGGTCCCTCAAGAGCTGGAAAAGAAAAGCATCCACCTCCAGAGAAGAGCGTGCCTTCTG
 AGAGAGGCCTCTCTCCAACAATAGTGGCCAGCACTCCAGGACACTGACAGCAACCATGAAGAAGCCCA
 GAATCACATCTATCAGCAAAATCACATGGTCTGTCTCGGGCCCGCAATGGGATGCCACTTCTGAAGGAG
 GTTCCCGCTCTTACGAACCTCTCAAGCCCGCCCATCTGCCAAGAGACTCCGTCAAAGTGTATCAACA
 AGGAAGGGGAGGTGATGGATGTGTATCGGTGTGACCACTGCCCGCTCTCTCTGGACTATGTGATGTT
 CACGATTCACATGGGCTGCCACGGCTTCCGTGACCCTTTCGAGTGAACATGTGTGGATATCGAAGCCAT
 GATCGGTATGAGTTCTCGTCTCACATAGCCAGAGGAGAACACAGAGCCCTGCTGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207547 representing NM_012481
 Red=Cloning site Green=Tags(s)

MEDIQTNAELKSTQEQSVPAESA AVLNDYSLTKSHEMENVDSGEGPANEDEDIGDDSMKVKDEYSERDEN
 VLKSEPMGNAEPEIPYSYSREYNEYENIKLERHVVSFDSRPTSGKMNCVCGLSGISFNVLMVHKRSH
 TGERPFQCNQCGASFTQKGNLLRHILHTGEKPFKCHLCNYACQRRDALTGHLRTHSVEKPYKCEFCGRS
 YKQRSSLEEHKRCRFLQSTDPGDTASAEARHIKAEMGSERALVLDRLASNVAKRKSSMPQKFIGEKRH
 CFDVNYNSSYMEKESELIQTRMMDQAINNAISYLGAEALRPLVQTPAPTSEMVPVISSMYPIALTRAE
 MSNGAPQELEKKS IHLPEKSVPSERGLSPNNSGHDSTDTDSNHEERQNHIIYQQNHMVL SRARNGMPLLKE
 VPRSYELLKPPPICPRDSVKVINKEGEVMDVYRCDHCRVFLDYVMFTIHMGC HGFDRPFE CNMCGYRSH
 DRYEFSSH IARGEHRALLK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:

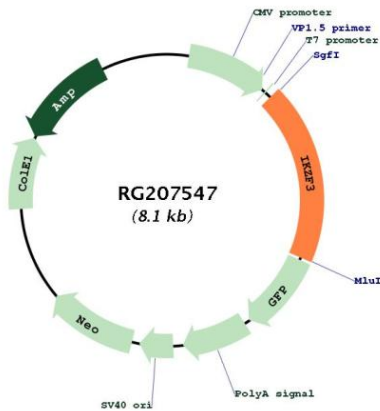
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_012481.5](#)

RefSeq Size: 2437 bp
 RefSeq ORF: 1530 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 RG207547