

## Product datasheet for **RG233911**

### **IKZF3 (NM\_001257414) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_001257414) 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)
ORF Nucleotide Sequence:	>RG233911 representing NM_001257414 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGATATACAAACAAATGCGGAAGTAAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAAGTGACG  
CGGTTTTGAATGACTACAGTTTAAACAAATCTCATGAAATGGAAAATGTGGACAGTGGAGAAGGCCCAGC  
CAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTAAAAGATGAATACAGTAAAAGAGATGAGAAT  
GTTTTAAAGTCAAACCCATGGGAAATGCAGAAGAGCCTGAAATCCCTTACAGCTATTCAAGAGAATATA  
ATGAATATGAAAACATTAAGTTGGAGAGACATGTTGTCTCATTGATAGTAGCAGGCCAACCAAGTGGAAA  
GATGAACTGCGATGTGTGTGGATTATCCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCAT  
ACTGGTGAGAAGCGCCACTGCTTTGATGTCAACTATAATTCAAGTTACATGTATGAGAAAAGAGAGTGAGC  
TCATACAGACCCGCATGATGGACCAAGCCATCAATAACGCCATCAGCTATCTTGGCGCCGAAGCCCTGCG  
CCCCTTGGTCCAGACACCGCCTGCTCCACCTCGGAGATGGTTCCAGTTATCAGCAGCATGTATCCCATA  
GCCCTCACCCGGGCTGAGATGTCAAACGGTGCCCTCAAGAGCTGGAAAAGAAAAGCATCCACCTTCCAG  
AGAAGAGCGTGCCTTCTGAGAGAGGCCTCTCTCCAACAATAGTGCCACGACTCCACGGACACTGACAG  
CAACCATGAAGAACGCCAGAATCACATCTATCAGCAAAATCACATGGTCTGTCTCGGGCCCGCAATGGG  
ATGCCACTTCTGAAGGAGTTCCCGCTTTACGAACTCCTCAAGCCCCGCCATCTGCCCAAGAGACT  
CCGTCAAAGTGATCAACAAGGAAGGGGAGGTGATGGATGTGATCGGTGTGACCACTGCCCGCTCCTCTT  
CCTGGACTATGTGATGTTACAGATTACATGGGCTGCCACGGCTTCCGTGACCCCTTCGAGTGTAACATG  
TGTGGATATCGAAGCCATGATCGGTATGAGTTCTCGTCTCACATAGCCAGAGGAGAACACAGAGCCCTGC  
TGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233911 representing NM\_001257414  
 Red=Cloning site Green=Tags(s)

MEDIQTNALKSTQEQSVPAESA AVLNDYSLTKSHEMENVDSGEGPANEDEDIGDDSMKVKDEYSERDEN  
 VLKSEPMGNAEEPEIPYSYSREYNEYENIKLERHVVSFDSSRPTSGKMNCDCVGLSCISFNVLMVHKRSH  
 TGEKRHCFDVNYSYMYEKESELIQTRMMDQAINNAISYLGAELRPLVQTPAPTSEMVPVISSMYPI  
 ALTRAEMNGAPQELEKKSIIHLPEKSVPSERGLSPNNSGHDSTDTDSNHEERQNHIIYQQNHMVL SRARNG  
 MPLLLKEVPRSYELLKPPPIICPRDSYKVINKEGEVMDVYRCDHCRVFLDYVMFTIHMGCHEFRDPFECNM  
 CGYRSHDRYEFSSHIARGEHRALLK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001257414

**ORF Size:** 1125 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\\_001257414.2](#)

**RefSeq Size:** 9284 bp

**RefSeq ORF:** 1128 bp

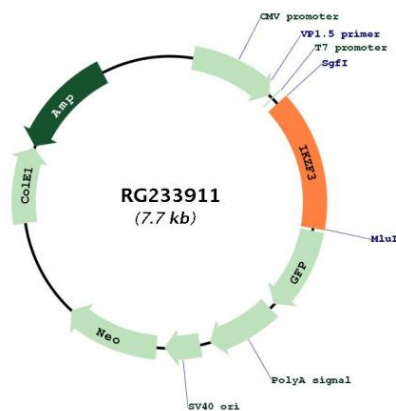
**Locus ID:** 22806

**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 RG233911