

## Product datasheet for **RG232590**

### **IKZF3 (NM\_001257411) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IKZF3 (NM\_001257411) 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:** >RG232590 representing NM\_001257411  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGATATACAAACAAATGCGGAAGTAAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAAGTGACG  
CGGTTTTGAATGACTACAGTTTAAACAAATCTCATGAAATGGAAAATGTGGACAGTGGAGAAGGCCAGC  
CAATGAAGATGAAGACATAGGAGTGGAGAAACCTACAAATGTGAGTTTTGTGGAAGGAGTTACAAGCAG  
AGAAGTCCCTTGAGGAGCACAAGGAGCGCTGCCGTACATTTCTCAGAGCACTGACCCAGGGGACACTG  
CAAGTGGCGGAGCAAGACACATCAAAGCAGAGATGGGAAGTAAAAGAGCTCTCGTACTGGACAGATTAGC  
AAGCAATGTGGCAAAACGAAAAAGCTCAATGCCTCAGAAATTCATTGGTGAGAAGCGCCACTGCTTTGAT  
GTCAACTATAATTCAAGTTACATGTATGAGAAAAGAGAGTGAGCTCATACAGACCCGCATGATGGACCAAG  
CCATCAATAACGCCATCAGCTATCTTGGCGCCGAAGCCCTGCGCCCTTGGTCCAGACACCCGCTGCTCC  
CACCTCGGAGATGGTCCAGTTATCAGCAGCATGTATCCCATAGCCCTCACCCGGGCTGAGATGTCAAAC  
GGTGCCCTCAAGAGCTGGAAAAGAAAAGCATCCACCTTCAGAGAAGAGCGTGCCTTCTGAGAGAGGCC  
TCTCTCCAACAATAGTGGCCACGACTCCACGGACACTGACAGCAACCATGAAGAACGCCAGAATCACAT  
CTATCAGCAAAATCACATGGTCTGTCTCGGGCCGCAATGGGATGCCACTTCTGAAGGAGGTTCCCGGC  
TCTTACGAACTCCTCAAGCCCCCGCCATCTGCCAAGAGACTCCGTCAAAGTGATCAACAAGGAAGGGG  
AGGTGATGGATGTGTATCGGTGTGACCACTGCCGCTCCTTCTCGGACTATGTGATGTTACAGATTCA  
CATGGGCTGCCACGGCTTCCGTGACCTTTTCGAGTGTAACATGTGTGGATATCGAAGCCATGATCGGTAT  
GAGTTCTCGTCTCACATAGCCAGAGGAGAACACAGAGCCCTGCTGAAG

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232590 representing NM\_001257411  
Red=Cloning site Green=Tags(s)

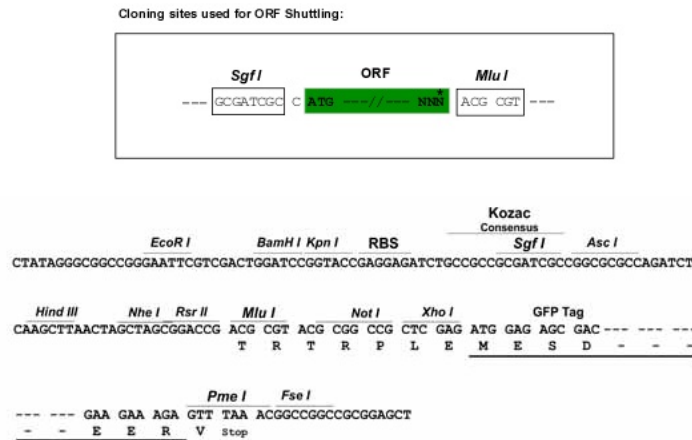
MEDIQTNAELKSTQEVSVAESA AVLNDYSLTKSHEMENVDSGEGPANEDDIGVEKPYKCEFCGRSYKQ  
 RSSLEEHKERCRTFLQSTDPGDTASAEARHIKAEMGSERALVLDRLASNVAKRKSMPQKF IGEKRHCFD  
 VNYNSSYMYEKESELIQTRMMDQAINNAISYLGAELRPLVQTPPAPTSEMVPVISSMYPIALTRAEMSN  
 GAPQELEKKSIIHLPEKSVPSERGLSPNNSGHDSTDTDSNHEERQNHIIYQQNHMVL SRARNGMPLLKEVPR  
 SYELLKPPPICPRDSVKVINKEGEVMDVYRCDHCRVFLFDYVMFTIHMGC HGFDRDPFECNMCGYRSHDRY  
 EFSSHIARGEHRALLK

TRTRPLE - GFP Tag - V

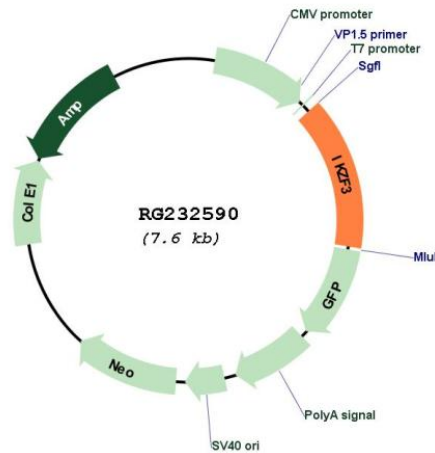
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001257411

<b>ORF Size:</b>	1098 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001257411.2</a>
<b>RefSeq Size:</b>	9257 bp
<b>RefSeq ORF:</b>	1101 bp
<b>Locus ID:</b>	22806
<b>UniProt ID:</b>	<a href="#">Q9UKT9</a>
<b>Cytogenetics:</b>	17q12-q21.1
<b>Gene Summary:</b>	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]