

## Product datasheet for **RG237009**

### **IKZF3 (NM\_001284515) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_001284515) 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:	>RG237009 representing NM_001284515. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAAGTAAAAGAGCTCTCGTACTGGACAGATTAGCAAGCAATGTGGCAAACGAAAAAGCTCAATG
CCTCAGAAATTCATTGGTGAGAAGCGCCACTGCTTTGATGTCAACTATAATTCAAGTTACATGTATGAG
AAAGAGAGTGAGCTCATAAGACCCGCATGATGGACCAAGCCATCAATAACGCCATCAGCTATCTTGGC
GCCGAGCCCTGCGCCCTTGGTCCAGACACCGCCTGCTCCACCTCGGAGATGGTTCCAGTTATCAGC
AGCATGTATCCCATAGCCCTCACCCGGGCTGAGATGTCAAACGGTGCCCTCAAGAGCTGAAAAAGAAA
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TCCACGGACACTGACAGCAACCATGAAGAACGCCAGAATCACATCTATCAGCAAAATCACATGGTCCCTG
TCTCGGGCCCGCAATGGGATGCCACTTCTGAAGGAGGTTCCCGCTCTTACGAACTCCTCAAGCCCCCG
CCCATCTGCCAAGAGACTCCGTCAAAGTGATCAACAAGGAAGGGGAGGTGATGGATGTGTATCGGTGT
GACCACTGCCCGCTCCTCTTCTGGACTATGTGATGTTTACGATTACATGGGCTGCCACGGCTTCCGT
GACCCTTTCGAGTGTAACATGTGTGGATATCGAAGCCATGATCGGTATGAGTTCTCGTCTCATATAGCC
AGAGGAGAACACAGAGCCCTGCTGAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



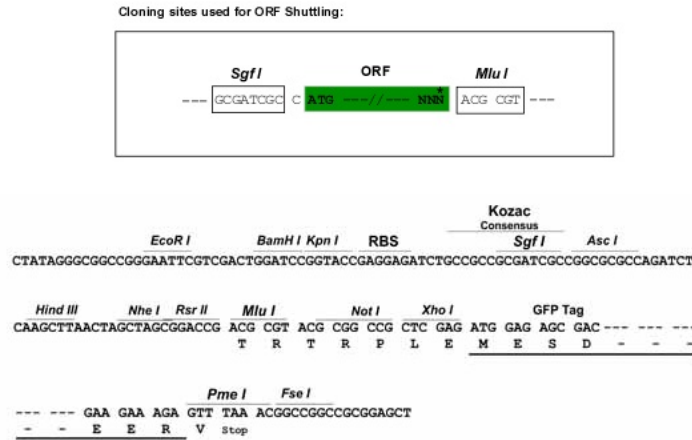
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG237009  
 Blue=ORF Red=Cloning site Green=Tag(s)

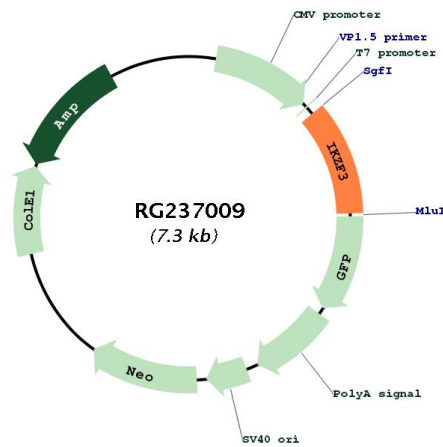
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 STDTDSNHEERQNHIIYQQNHMVL SRANGMPLLKEVPRSYELLKPPPICPRDSVKVINKEGEVMDVYRC  
 DHCRVFLDYVMFTIHMGCCHGRDPFECNMCGYRSHDRYEFSSHIARGEHRALLK  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001284515

<b>ORF Size:</b>	786 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>RefSeq:</b>	<a href="#">NM_001284515.2</a>
<b>RefSeq Size:</b>	9644 bp
<b>RefSeq ORF:</b>	789 bp
<b>Locus ID:</b>	22806
<b>UniProt ID:</b>	<a href="#">Q9UKT9</a>
<b>Cytogenetics:</b>	17q12-q21.1
<b>MW:</b>	30.4 kDa
<b>Gene Summary:</b>	<p>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]</p>