

Product datasheet for **RG237010**

IKZF3 (NM_001284516) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_001284516) 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:	>RG237010 representing NM_001284516. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAAGTAAAAGAGCTCTCGTACTGGACAGATTAGCAAGCAATGTGGCAAACGAAAAAGCTCAATG
CCTCAGAAATTCATTGGTGAGAAGCGCCACTGCTTTGATGTCAACTATAATTCAAGTTACATGTATGAG
AAAGAGAGTGAGCTCATAAGACCCGCATGATGGACCAAGCCATCAATAACGCCATCAGCTATCTTGGC
GCCGAGCCCTGCGCCCTTGGTCCAGACACCGCCTGCTCCACCTCGGAGATGGTTCCAGTTATCAGC
AGCATGTATCCCATAGCCCTCACCCGGGCTGAGATGTCAAACGGTGCCCTCAAGAGCTGAAAAAGAAA
AGCATCCACCTTCCAGAGAAGAGCGTGCCTTCTGAGAGAGGCCTCTCTCCAACAATAGTGCCACAGAC
TCCACGGACACTGACAGCAACCATGAAGAACGCCAGAATCACATCTATCAGCAAAATCACATGGTCCCTG
TCTCGGGCCCGCAATGGGATGCCACTTCTGAAGGAGGTTCCCGCTCTTACGAACTCCTCAAGCCCCCG
CCCATCTGCCAAGAGACTCCGTCAAAGTGATCAACAAGGAAGGGGAGGTGATGGATGTGTATCGGTGT
GACCACTGCCCGCTCCTCTTCTGGACTATGTGATGTTTACGATTCACATGGGCTGCCACGGCTTCCGT
GACCCCTTCGAGTGTAACATGTGTGGATATCGAAGCCATGATCGGTATGAGTTCTCGTCTCACATAGCC
AGAGGAGAACACAGAGCCCTGCTGAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237010
 Blue=ORF Red=Cloning site Green=Tag(s)

MGSERALVLDRLASNAVKRKSSMPQKFIGEKRHCFDVNYNSSYMYEKESELIQTRMMDQAINNAISYLG
 AEALRPLVQTPAPTSEMVPVISSMPIALTRAEMNGAPQELEKKSIIHLPEKSVPSERGLSPNNSGHD
 STDTDSNHEERQNHIIYQQNHMVL SRARNGMPLLKEVPRSYELLKPPPICPRDSVKVINKEGEVMDVYRC
 DHCRVFLDYVMFTIHMGCCHGRDPFECNMCGYRSHDRYEFSSHIARGEHRALLK
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001284516

ORF Size: 786 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).

RefSeq: [NM_001284516.1](#), [NP_001271445.1](#)

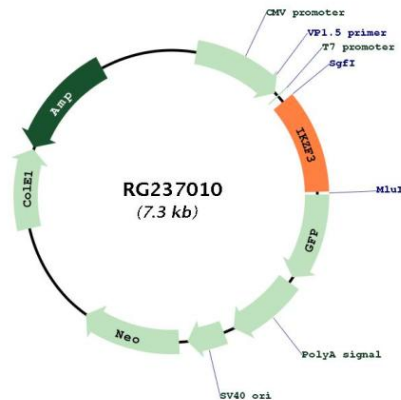
RefSeq Size: 9256 bp

RefSeq ORF: 789 bp

Locus ID: 22806
UniProt ID: [Q9UKT9](#)
Cytogenetics: 17q12-q21.1
MW: 30.4 kDa

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 RG237010