

Product datasheet for **SC122788**

IKZF3 (NM_012481) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKZF3 (NM_012481) Human Untagged Clone
Tag:	Tag Free
Symbol:	IKZF3
Synonyms:	AIO; AIOLOS; ZNFN1A3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_012481 edited
 CCACGCGTCCGGGTAGCCACAGCGGCAGCTCCAGCCC GGCCCGGCAGCGACATGGAAGAT
 ATACAAACAAATGCGGAACTGAAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAGTGCA
 GCGGTTTTGAATGACTACAGTTTAAACAAATCTCATGAAATGGAAATGTGGACAGTGA
 GAAGGCCAGCCAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTGAAAGATGAA
 TACAGTGAAAAGAGATGAGAATGTTTTAAAGTCAGAACCCATGGGAAATGCAGAAGAGCCT
 GAAATCCCTTACAGCTATTCAAGAGAATAAATGAATATGAAAACATTAAGTTGGAGAGA
 CATGTTGTCTCATTTCGATAGTAGCAGGCCAACCAAGTGGAAAGATGAACTGCGATGTGTGT
 GGATTATCCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCATACTGGTGAA
 CGCCATTCCAGTGTAATCAGTGTGGGCATCTTTACTCAGAAAGGTAACCTCCTCCGC
 CACATTAAGTGCACACAGGGGAAAAACCTTTTAAAGTGTACCTCTGCAACTATGCATGC
 CAAAGAAGAGATGCGCTCACGGGCATCTTAGGACACATTCTGTGGAGAAACCTACAAA
 TGTGAGTTTTGTGAAGGAGTTACAAGCAGAGAAGTCCCTTGAGGAGCACAAGGAGCGC
 TGCCGTACATTTCTCAGAGCACTGACCCAGGGGACACTGCAAGTGGGAGGCAAGACAC
 ATCAAAGCAGAGATGGGAAGTGAAGAGCTCTCGTACTGGACAGATTAGCAAGCAATGTG
 GCAAAACGAAAAAGCTCAATGCCTCAGAAATTCATTGGTGAGAAGCGCCACTGCTTTGAT
 GTCAACTATAATTCAAGTTACATGTATGAGAAAGAGAGTGAGCTCATACAGACCCGCATG
 ATGGACCAAGCCATCAATAACGCCATCAGCTATCTTGGCGCCGAAGCCCTGCGCCCTTG
 GTCCAGACACCGCCTGCTCCACCTCGGAGATGGTTCCAGTTATCAGCAGCATGTATCCC
 ATAGCCCTCACCCGGGCTGAGATGTCAAACGGTGGCCCTCAAGAGCTGGAAAAGAAAAGC
 ATCCACCTCCAGAGAAGAGCGTGCCTTCTGAGAGAGGCCTCTCTCCCAACAATAGTGGC
 CAGCATCCACGGACACTGACAGCAACCATGAAGAACGCCAGAATCACATCTATCAGCAA
 AATCACATGGTCTGTCTCGGGCCGCAATGGGATGCCACTTCTGAAGGAGGTTCCCCGC
 TCTTACGAACTCCTCAAGCCCCCGCCATCTGCCAAGAGACTCCGTCAAAGTGATCAAC
 AAGGAAGGGGAGGTGATGGATGTGTATCGGTGTGACCACTGCCGCGTCTCTTCTGGAC
 TATGTGATGTTACGATTACATGGGCTGCCACGGCTTCCGTGACCCCTTCGAGTGAAC
 ATGTGTGGATATCGAAGCCATGATCGGTATGAGTTCTCGTCTCACATAGCCAGAGGAGAA
 CACAGAGCCCTGCTGAAGTGAATATCTGGTCTCAGGGATTGCTCCTATGTATTCAGCATC
 GTTTCTAAAAACCAATGACCTCGCCTAACAGATTGCTCTAAAACATACTCAGTTCCAAA
 CTTCTTTTCATACCATTTTTAGCTGTGTTACAGGGGTAGCCAGAGAAACACTGTCTTCC
 TTCAGAAATTATTCGCAGGTCTAGCATATTACTTTTTGTGAAACCTTTGTTTTCCCAT
 CAGGGACTTGAATTTTATGGAATTTAAAAGCCAAAAAGGTATTTGGTCATTATCTTCTAC
 AGCAGTGGAAATGAGTGGTCCCGGAGATGTGCTATATGAAACATTCTTTCTGAGATATATC
 AACCACACGTGGAAAAGCCTTTCAGTCATACATGCAAAATCCACAAAGAGGAAAGAGCTGAC
 CAGCTGACCTTGCTGGGAAGCCTCACCTTCTGCCCTTACAGGCTGAAGGGTTAAGATC
 TAATCTCCCTAATCTAAATGACAGTCTAAGAGTAAAGTAAAAGAACAGCCATAAAATAAGT
 ATCTGTTACGAGTAACTGAAGACCCCATCTCCAAGCATCAGATCCATTTCTATCACAA
 CATTTTTAAAAATGTCATCTGATGGCACTTCTGCTTCTGCTTTACCTTCCCATCTCC
 AGTGAAAAGCTGAGCTGCTTTGGGCTAAACCAGTTGTCTATAGAAGAAAATCTATGCCAG
 AAGAAGTCAATGGTTTTAAATATAGACCATCATCGAAACTCCAGAAATTTATCCACTGTGG
 ATGATGACATCGCTTTCTTTGGTCAAGGTTGGCAGAGCAAGGGTATAAAGGGGGAAATT
 GTTTGGCAGCACCAACAGAAAACAAAACAAAAA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012481 unedited CTTAGCATTAGTAATACGACTTTATATNAGGGCGGCACGCGGAATCCCAGGGAATCGTC GACCCACGCGTCCGGGTAGCCACAGCGGCAGCTCCAGCCCAGCCCGGCAGCGACATGGGA AGATATACAAACAAATGCGGAACTGAAAAGCACTCAGGAGCAGTCTGTGCCCGCAGAAAG TGCAGCGGTTTTGAATGACTACAGTTTAAACAAATCTCATGAAATGGAAAATGTGGACAG TGGAGAAGGCCAGCCAATGAAGATGAAGACATAGGAGATGATTCAATGAAAGTAAAAGA TGAATACAGTGAAGAGATGAGAATGTTTTAAAGTCAGAACCCATGGGAAATGCAGAAGA GCCTGAAATCCCTTACAGCTATTCAAGAGAATATAATGAATATGAAAACATTAAGTTGGA GAGACATGTTGTCTCATTTCGATAGTAGCAGGCCAACCAAGTGGAAAAGATGAACTGCGATGT GTGTGGATTATCCTGCATCAGCTTCAATGTCTTAATGGTTCATAAGCGAAGCCATACTGG TGAACGCCATTCCAGTGAATCAGTGTGGAGCATCTTTTACTCAGAAAGGTAACCTCCT CCGCCACATTAACCTGCACACAGGGGAAAAACCTTTTAAAGTGCACCCTCTGCACTATG CATGCCANAGAAGAGATGCCCTTACGGGGCATCTTTAGGACACATTCTGTGGAAAAAACC CTACAAATGTGAAGTTTTTGGGGAAGGAGTTTACAAGCCAAAAAATTTCCCTTGAAGAAC ACAAGGGACGCCTGCCGTACATTTCTTTTGGAACTGACCCAAGGGACACCTGCAGTGC GGGAGGCAACAACCTCCAATCCAATTTGGGAAGGGAAAAAGCTCTCGTATCGGACAAAT TAACAGCCATGGGCAAAAACAAAAATCCATGGCTGCGAAATTCTT
Restriction Sites:	Please inquire
ACCN:	NM_012481
Insert Size:	2443 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
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:	<ol style="list-style-type: none"> 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_012481.3 , NP_036613.2
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]
Transcript Variant: This variant (1) encodes the longest isoform (1, also known as Aio-1).
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.