

## Product datasheet for **RC234050**

### Ikaros (IKZF1) (NM\_001220767) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ikaros (IKZF1) (NM_001220767) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ikaros
Synonyms:	CVID13; Hs.54452; IK1; IKAROS; LyF-1; LYF1; PPP1R92; PRO0758; ZNFN1A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234050 representing NM\_001220767  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATGCTGATGAGGGTCAAGACATGTCCAAGTTTCAGGGAAGGAAAGCCCCCTGTAAGCGATACTC  
 CAGATGAGGGCGATGAGCCCATGCCGATCCCCGAGGACCTCTCCACCACCTCGGGAGGACAGCAAAGCTC  
 CAAGAGTGACAGAGTCGTGGGAGAACGGCCCTTCCAGTGAATCAGTGCGGGGCCTCATTACCCAGAAG  
 GGCAACCTGCTCCGGCACATCAAGCTGCATTCCGGGGAGAAGCCCTTCAAATGCCACCTCTGCAACTACG  
 CCTGCCGCGGAGGGACGCCCTCACTGGCCACCTGAGGACGCACTCCGTTGGTAAACCTCACAAATGTGG  
 ATATTGTGGCCGAAGCTATAAACAGCGAAGCTCTTTAGAGGAACATAAAGAGCGCTGCCACAACACTTTG  
 GAAAGCATGGGCCTTCCGGGCACACTGTACCCAGTCATTAAGAAGAAACTAATCACAGTAAATGGCAG  
 AAGACCTGTGCAAGATAGGATCAGAGAGATCTCTCGTGTGGACAGACTAGCAAGTAACGTCGCCAAACG  
 GGACAAGGCCTGTCCGACACGCCCTACGACAGCAGCCAGCTACGAGAAGGAGAACGAAATGATGAAG  
 TCCCACGTGATGGACCAAGCCATCAACAACGCCATCAACTACCTGGGGGCGGAGTCCCTGCGCCCGCTGG  
 TGCAGACGCCCCCGGGCGGTTCCGAGGTGGTCCCGGTATCAGCCCGATGTACCAGCTGCACAAGCCGCT  
 CGCGGAGGGCACCCCGCCTCAACCACTCGGCCAGGACAGCGCCGTGGAGAACCTGCTGCTGCTCTCC  
 AAGGCCAAGTTGGTGCCTCGGAGCGGAGGCGTCCCCGAGCAACAGCTGCCAAGACTCCACGGACACCG  
 AGAGCAACAACGAGGAGCAGCGCAGCGGTCTCATCTACCTGACCAACCACATCGCCCCGCACGCGCGCAA  
 CGGGCTGTGCTCAAGGAGGAGCACCAGCGCTACGACCTGCTGCGCGCCGCTCCGAGAAGTCCGAGGAC  
 GCGCTCCGCGTGGTCAGCACCAGCGGGGAGCAGATGAAGGTGTACAAGTGCGAACACTGCCGGGTGCTCT  
 TCCTGGATCAGTCATGTACACCATCCACATGGGCTGCCACGGCTCCGTGATCCTTTTGAGTGCAACAT  
 GTGCGGCTACCACAGCCAGGACCGGTACGAGTTCTCGTCGCACATAACCGGAGGGGAGCACCGCTCCAC  
 ATGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234050 representing NM\_001220767  
 Red=Cloning site Green=Tags(s)

MDADEGQDMSQVSGKESPPVSDTPDEGDEPMPPIPEDLSTTSGGQSSKSDRVVGERPFQCNQCGASFTQK  
 GNLLRHIKLSGEEKPFKCHLCNYACRRRDALTGHLRTHSVGKPHKCGYGRSYKQRSSLEEHRCHNYL  
 ESMGLPGTLYPVIKEETNHSEMAEDLCKIGSERSLVDRLASNVAKRDKGLSDTPYDSSASYEKENEMMK  
 SHVMDQAINNAINYLGAESLRPLVQTPPGGSEVVPVISPMPYQLHKPLAEGTPRSNHSAQDSAVENLLLLS  
 KAKLVPSEREASPSNSQDSTDTESNNEEQRSGLIYLTNHIAPHARNGLSLKEEHRAYDLLRAASENSQD  
 ALRVVSTSGEQMKVYKCEHCRVLFLDHVMYTIHMGCHGFRDPFECNMCGYHSQDRYEFSSHITRGEHRFH  
 MS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

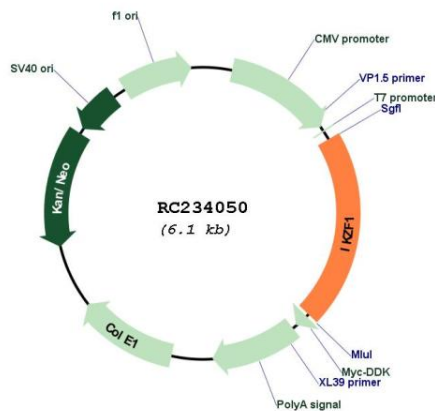


**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 47.6 kDa

**Gene Summary:** This gene encodes a transcription factor that belongs to the family of zinc-finger DNA-binding proteins associated with chromatin remodeling. The expression of this protein is restricted to the fetal and adult hemo-lymphopoietic system, and it functions as a regulator of lymphocyte differentiation. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene. Most isoforms share a common C-terminal domain, which contains two zinc finger motifs that are required for hetero- or homo-dimerization, and for interactions with other proteins. The isoforms, however, differ in the number of N-terminal zinc finger motifs that bind DNA and in nuclear localization signal presence, resulting in members with and without DNA-binding properties. Only a few isoforms contain the requisite three or more N-terminal zinc motifs that confer high affinity binding to a specific core DNA sequence element in the promoters of target genes. The non-DNA-binding isoforms are largely found in the cytoplasm, and are thought to function as dominant-negative factors. Overexpression of some dominant-negative isoforms have been associated with B-cell malignancies, such as acute lymphoblastic leukemia (ALL). [provided by RefSeq, May 2014]

**Product images:**



Circular map for RC234050