

## Product datasheet for **RC206483**

### ZNFN1A2 (IKZF2) (NM\_001079526) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNFN1A2 (IKZF2) (NM_001079526) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNFN1A2
Synonyms:	ANF1A2; HELIOS; ZNF1A2; ZNFN1A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC206483 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAACAGAGGCTATTGATGGCTATATAACGTGTGACAATGAGCTTTCACCCGAAAGGGAGCACTCCA  
 ATATGGCAATTGACCTCACCTCAAGCACACCCAATGGACAGCATGCCTCACCAAGTCACATGACAAGCAC  
 AAATTCAGTAAAGCTAGAAATGCAGAGTATGAAGAGTGTGACAGGAAACCCCTGAGCCGTGAAGATGAG  
 ATCAGGGGCCATGATGAGGGTAGCAGCCTAGAAGAACCCCTAATTGAGAGCAGCGAGGTGGCTGACAACA  
 GGAAAGTCCAGGAGCTTCAAGGCGAGGGAGGAATCCGGCTTCCGAATGGTGAACGCCCTTCCACTGTAA  
 CCAGTGTGGAGCTTCTTTACTCAGAAGGGCAACCTTCTGAGACACATAAAGTTACTCTGGAGAGAAG  
 CCGTTCAAATGTCCTTTCTGTAGCTACGCCTGTAGAAGAAGGGACGCCCTCACAGGACACCTCAGGACCC  
 ATCTGTGGGTAAACCTCACAAGTGCAACTACTGTGGACGAAGCTACAAGCAGCGCAGTTCACTGGAGGA  
 GCACAAGGAACGCTGCCACAATCTCCAGAATGTCAGCATGGAGGCTGCTGGCAGGTGATGAGTCAC  
 CATGTACCTCCTATGGAAGATTGTAAGGAACAAGAGCCTATTATGGACAACAATATTTCTCTGGTGCCTT  
 TTGAGAGACCTGCTGTCATAGAGAAGCTCACGGGAATATGGGAAAACGTAAGGCTCCACTCCACAAAA  
 GTTTGTGGGGGAAAAGCTCATGCGATTACAGTACCCAGATATCACTTTGATATGAACTTAACATATGAG  
 AAGGAGGCTGAGCTGATGAGTCTCATATGATGGACCAAGCCATCAACAATGCAATCACCTACCTTGGAG  
 CTGAGGCCCTTACCCTCTGATGCAGCACCCGCCAAGCACAATCGCTGAAGTGGCCCCAGTTATAAGCTC  
 AGCTTATTTCTCAGGTCTATCATCCAAATAGGATAGAAAGACCCATTAGCAGGGAAACTGCTGATAGTCAT  
 GAAAACAACATGGATGGCCCCATCTCTCATCAGACCAAGAGTGCACCCAGGAAAGAGAGGCCCTCTC  
 CCAGCAATAGCTGCCTGGATTCCACTGACTCAGAAAGCAGCCATGATGACCACCAGTCTACCAAGGACT  
 CCTGCTTAAATCCCAAGAGGAAACAAAGCCAGCTTACATGAAGGAGGATGTCAAAGCTTTGGATACT  
 ACCAAGGCTCCTAAGGGCTCTCTGAAGGACATCTACAAGTCTTCAATGGAGAAGGAGAACAGATTAGGG  
 CCTTCAAGTGTGAGCACTGCCGAGTCTTTTCTAGACCATGTCATGTACACCATTACATGGGTTGCCA  
 TGGCTACCGGGACCCACTGGAATGCAACATCTGTGGCTACAGAAGCCAGGACCGTTATGAGTTTTATCA  
 CACATTGTTGAGGGGAGCACACATTCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC206483 protein sequence  
 Red=Cloning site Green=Tags(s)

METEAIDGYITCDNELSPEREHSNMAIDLTSSTPNGQHASP SHMTSTNSVKLEMQSDEECDRKPLSREDE  
 IRGHDEGSSLEEPLIESSEVADNRKVQELQEGGIRLPNGERPFHCNQCASFQKGNLLRHILKHSGEK  
 PFKCPFCSYACRRRDALTGHLRTHSVGKPHKCNVCGRSYQQRSSLEEHEKERCHNYLQNVSMEEAAGQVMSH  
 HVPPMEDCKEQEPIMDNNISLVFPERPAVIEKLTGNMGRKSSTPQKVFGEKLMRF SYPDIHFDMLTYE  
 KEAELMQSHMDQAINNAITYLGAELHPLMQHPPSTIAEVAPVISSAYSQVYHPNRIERPISRETADSH  
 ENNMDGPISLIRPKSRPQEREASPSNSCLDSTDSESSHDDHQSYQGHPALNPKRKQSPAYMKEDVKALDT  
 TKAPKGS�KDIYKFNGEGEQIRAFKCEHCRVFLDHVMYTIHMGCHGYRDPLECNICGYRSQDRYEFSS  
 HIVRGEHTFH

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6332\\_a11.zip](https://cdn.origene.com/chromatograms/mk6332_a11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:**

NM\_001079526

**ORF Size:**

1500 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](mailto: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](#)

**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).

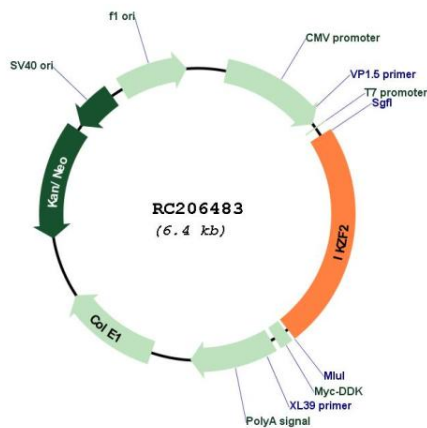
**Reconstitution Method:**

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.

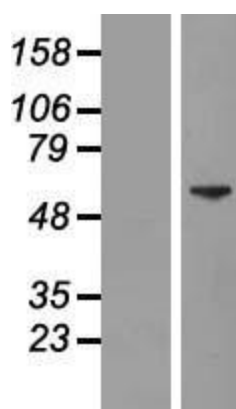
**RefSeq:** [NM\\_001079526.2](#)  
**RefSeq Size:** 9512 bp  
**RefSeq ORF:** 1503 bp  
**Locus ID:** 22807  
**UniProt ID:** [Q9UKS7](#)  
**Cytogenetics:** 2q34  
**MW:** 56.8 kDa

**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 protein forms homo- or heterodimers with other Ikaros family members, and is thought to function predominantly in early hematopoietic development. Multiple transcript variants encoding different isoforms have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC206483



Western blot validation of overexpression lysate (Cat# [LY421516]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206483 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).