

## Product datasheet for **RG214813**

### ZNFN1A2 (IKZF2) (NM\_016260) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNFN1A2 (IKZF2) (NM_016260) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNFN1A2
Synonyms:	ANF1A2; HELIOS; ZNF1A2; ZNFN1A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214813 representing NM\_016260  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAACAGACGCTATTGATGGCTATATAACGTGTGACAATGAGCTTTCACCCGAAAGGGAGCACTCCA  
 ATATGGCAATTGACCTCACCTCAAGCACACCCAATGGACAGCATGCCTCACCAAGTCACATGACAAGCAC  
 AAATTCAGTAAAGCTAGAAATGCAGAGTATGAAGAGTGTGACAGGAAACCCCTGAGCCGTGAAAATGAG  
 ATCAGGGGCCATGATGAGGGTAGCAGCCTAGAAGAACCCCTAATTGAGAGCAGCGAGGTGGCTGACAACA  
 GGAAAGTCCAGGAGCTTCAAGGCGAGGGAGGAATCCGGCTTCCGAATGGTAAACTGAAATGTGACGCTCTG  
 TGGCATGGTTTGATTGGGCCAATGTGCTTATGGTACATAAAAGGAGTCACTGGTGAACGCCCTTC  
 CACTGTAACCAAGTGTGGAGCTTCTTTACTCAGAAGGGCAACCTTCTGAGACACATAAAGTTACTACTCTG  
 GAGAGAAGCCGTTCAAATGTCTTTCTGTAGCTACGCCTGTAGAAGAAGGGACGCCCTCACAGGACACCT  
 CAGGACCCATTCTGTGGTAAACCTCACAAGTGAACACTGTGGACGAAGCTACAAGCAGCGCAGTTCA  
 CTGGAGGAGCACAAAGGAACGCTGCCACAACATATCTCCAGAATGTGACGATGGAGGCTGCTGGGCAGGTCA  
 TGAGTCCACATGTACCTCCTATGGAAGATTGTAAGGAACAAGAGCCTATTATGGACAACAATATTTCTCT  
 GGTGCCTTTTGAGAGACCTGCTGTATAGAGAAGCTCACGGGGAATATGGGAAAACGTAAAAGCTCCACT  
 CCACAAAAGTTTGTGGGGAAAAGCTCATGCGATTACAGTACCCAGATATTCACCTTTGATATGAACCTAA  
 CATATGAGAAGGAGGCTGAGCTGATGCAGTCTCATATGATGGACCAAGCCATCAACAATGCAATCACCTA  
 CCTTGGAGCTGAGGCCCTCACCTCTGATGCAGCACCCGCCAAGCACAATCGCTGAAGTGGCCCGAGTT  
 ATAAGCTCAGCTTATTCTCAGGTCTATCATCCAATAGGATAGAAAGACCCATTAGCAGGAAAACGCTG  
 ATAGTCATGAAAACAACATGGATGGCCCATCTCTCATCAGACCAAAGAGTCGACCCAGGAAAAGAGA  
 GGCTCTCCCAGCAATAGCTGCCTGGATTCCACTGACTCAGAAAGCAGCCATGATGACCACCACTCTAC  
 CAAGGACACCCTGCCTTAAATCCCAAGAGGAAAACAAGGCCAGCTTACATGAAGGAGGATGTCAAAGCTT  
 TGGATACTACCAAGGCTCCTAAGGGCTCTCTGAAGGACATCTACAAGGTCTTCAATGGAGAAGGAGAACA  
 GATTAGGGCCTTCAAGTGTGAGCACTGCCGAGTCTTTTCTAGACCATGTATGTACACCATTACATG  
 GGTGCCATGGCTACCGGACCCACTGGAATGCAACATCTGTGGCTACAGAAGCCAGGACCGTTATGAGT  
 TTTTCATCACACATTGTTGAGGGGAGCACACATTCCAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214813 representing NM\_016260  
 Red=Cloning site Green=Tags(s)

METDAIDGYITCDNELSPEREHSNMAIDLTSSTPNGQHASP SHMTSTNSVKLEMQSDEECDRKPLSRENE  
 IRGHDEGSSLEEPLIESSEVADNRKVQELQEGGIRLPNGKCLKDVCGMVICIPNVLMVHKRSHTGERPF  
 HCNQCGASFTQKGNLLRHIKLSGKPFKCPFCYACRRRDALTGHLRTHSVGKPHKCNYSYGRSYQRSS  
 LEEHKERCHNYLQNVSMEEAAGQVMSSHVPPMEDCKEQEPIMDNNISLVFPERPAVIEKLTGNMGRKSSST  
 PQKRVGKLMRFSYPDIHFDMNLTYEKEAELMQSHMMDQAINNAITYLGAELHPLMQHPPSTIAEVAPV  
 ISSAYSQVYHPNRIERPISRETADSHENMDGPISLIRPKSRPQEREASPSNSCLDSTDESSHDDHQSY  
 QGHPALNPKRKQSPA YMKEDVKALDTTKAPKGLKDIYKVFNGEGEQIRAFKCEHCRVFLFDHVMYTIHM  
 GCHGYRDPLECNICGYRSQDRYEFSSHIVRGEHTFH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_016260

**ORF Size:** 1578 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).

**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\\_016260.1](#), [NP\\_057344.1](#)

**RefSeq Size:** 2490 bp

**RefSeq ORF:** 1581 bp

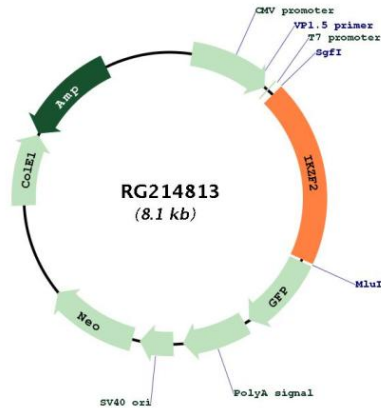
**Locus ID:** 22807

**UniProt ID:** [Q9UKS7](#)

**Cytogenetics:** 2q34

**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 RG214813