

Product datasheet for RC234044

IKZF5 (NM_001271840) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKZF5 (NM_001271840) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IKZF5
Synonyms:	PEGASUS; THC7; ZNFN1A5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC234044 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGAAAAAAAAACCAGAGCCTTTGGACTTCGTGAAAGATTTTCAGGAATACCTGACTCAGCAGACCC
ATCACGTGAACATGATTTCTGGATCAGTTAGTGGGACAAAGAAGCAGAGGCTCTTCAGGGAGCTGGAAC
AGATGGTGATCAAAATGGACTTGATCACCCATCTGTTGAAAGTTTCTTGGATGAAAACCTCAGGAATGTTA
GTAGACGGGTTTAAAGGACCTTTGATGGGAAGCTTAAGTGTCCGACTGCAACTATGCCAGCAAAGGAA
CAGCCCGCTTATTGAACACATCAGAATCCACACAGGTGAAAAACCTCATCGATGTCATCTTTGTCCATT
TGCATCTGCTTATGAGCGTCATCTGGAAGCCCATATGCGTTCTCATACTGGAGAAAAACCATACAATGT
GAATTATGTTCCCTCCGCTGCAGTGATCGAAGTAACTTGTCCCATCATCGAAGGCCAAGCATAAAAATGG
TACCAATTAAGGTAAGTCTTCTTAAAGCAGCAAGAAAAATGTGGGGGTTTTACAGAAGAAAAACAAG
CAATCTGGGCTATAGCAGAAGAGCACTAATCAACTAAGTCCACCTTCCATGGTGGTTAGAAAACAGAG
TACCTAACGATTTTACCACGAAATCCAAATATCCAGACTGACTCCTATGAAAGTATGGCAAAAACCA
CACCAACTGGTGGCCTTCCAAGGGACCCCAAGAACTCATGGTTGATAACCCTTTGAATCAGCTCTCGAC
TCTAGCAGGGCAGTTGTCCAGTCTGCCACCCGAAAACCAAAACCTGCATCCCTGATGTAGTTCCCTGC
CCTGATGAAAAGCCTTTTCATGATTCAGCAGCCCTCTACCAAGCAGTAGTTTCTGCGCATCAGCAAGTA
TTCTCAGAGCTCCTCTCCACAAGCCCAAGAACCTCGGCCATCCCATAGTCAAAGGAACTATAGTCCAGT
GGCAGGTCCAAGCAGTGAGCCAAGTGCCACACAGGCACTCCAGCATAGGAAACAGCCAGCCAAGCACC
CCAGCCCCAGCCCTGCCGGTCCAGGACCCTCAGCTTCTGCACCACTGCCAGCACTGTGATATGACTTTG
CAGACAACATCCTTTACACTATTCATATGGGATGTCATGGGTATGAAAATCCTTTTCAGTGAATATATG
TGGATGCAAAATGTAACAAGTATGATTTTGCCTGTCATTTTGAAGAGGGCAACATAACCAACAT

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC234044 protein sequence
Red=Cloning site Green=Tags(s)

MGEKKPEPLDFVKDFQEYL TQQTHVNMISGSVSGDKEAEALQGAGTDGDQNGLDHPSVEVSLDENSGML
 VDFGERTFDGKLCRCYCNASKGTARLIEHIRIHTGEKPHRCHLCPFASAYERHLEAHMRSHTGEKPYKC
 ELCSFRCSDRSNL SHHRRRKHKMPVIKGTSSLSKKMWGVLQKKTSNLGYSSRALINLSPPSMVVQKPD
 YLNDFTHEIPNIQTDSYESMAKTTPGTGGLPRDPQELMVDNPLNQLSTLAGQLSSLPPENQNPASPDVPC
 PDEKPFMIQQPSTQAVSASIPQSSSPTSPEPRPSHSQRNYSVPVAGPSSEPSAHTSTPSIGNSQPST
 PAPALPVQDPQLLHHCQCDMYFADNILYTIHMGCHGYENPFQCNICGCKCKNKYDFACHFARGQHNQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001271840

ORF Size: 1257 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](#)

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_001271840.1](#), [NP_001258769.1](#)

RefSeq Size: 4553 bp

RefSeq ORF: 1260 bp

Locus ID: 64376

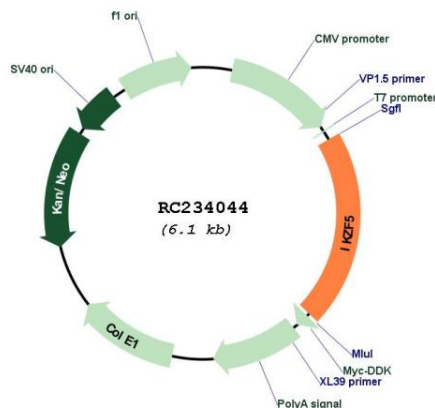
UniProt ID: [Q9H5V7](#)

Cytogenetics: 10q26.13

MW: 46.5 kDa

Gene Summary: Members of the Ikaros (ZNFN1A1; MIM 603023) family of transcription factors, which includes Pegasus, are expressed in lymphocytes and are implicated in the control of lymphoid development.[supplied by OMIM, Jul 2002]

Product images:



Circular map for RC234044