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Product datasheet for MR230291

Ikzf1 (NM_001301868) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ikzf1 (NM_001301868) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ikzf1
Synonyms:	5832432G11Rik; hlk-1; I; Ikaros; LyF-; LyF-1; mKIAA4227; Zfpn; Zfpn1a1; Znfn1a1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR230291 representing NM_001301868
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGTCGATGAGGGTCAAGACATGTCCCAAGTTTCAGGAAAGGAGAGCCCCCCAGTCAGTGACACTC
CAGATGAAGGGGATGAGCCCATGCCTGTCCCTGAGGACCTGTCCACTACCTCTGGAGCACAGCAGAACTC
CAAGAGTGATCGAGGCATGGCCAGTAATGTTAAAGTAGAGACTCAGAGTGATGAAGAGAATGGGCGTGCC
TGTGAAATGAATGGGGAAGAATGTGCAGAGGATTTACGAATGCTTGATGCCTCGGGAGAGAAAATGAATG
GCTCCCACAGGGACCAAGGCAGCTCGGCTTTGTCAGGAGTTGGAGGCATTCGACTTCCTAACGGAAAACT
AAAGTGTGATATCTGTGGGATCGTTTGCATCGGGCCCAATGTGCTCATGGTTCACAAAAGAAGTCATACT
GGTGAACGGCCTTTCCAGTGCAACCAGTGTGGGGCCTCCTTTACCCAGAAAGGCAACCTCCTGCGGCACA
TCAAGCTGCACTCGGGTGAGAAGCCCTTCAAATGCCATCTTTGCAACTATGCCTGCCGCCGGAGGGACGC
CCTCACCGGCCACCTGAGGACGCACTCCGTTGGTAAGCCTCACAAATGTGGATATTGTGGCCGGAGCTAT
AAACAGCGAAGCTCTTTAGAGGAGCATAAAGAGCGATGCCACAACTACTTGGAAAGCATGGGCCTTCCGG
GCATGTACCCAGTCATTAAGGAAGAAACTAACCACAACGAGATGGCAGAAGACCTGTGCAAGATAGGAGC
AGAGAGGTCCCTTGTCCTGGACAGGCTGGCAAGCAATGTCGCCAAACGAGACAAGTGCCTGTCAGACATG
CCCTATGACAGTGCCAACTATGAGAAGGAGGATATGATGACATCCCACGTGATGGACCAGGCCATCAACA
ATGCCATCAACTACCTGGGGGCTGAGTCCCTGCGCCCATTGGTGCAGACACCCCCCGGTAGCTCCGAGGT
GGTGCCAGTCATCAGCTCCATGTACCAGCTGCACAAGCCCCCCTCAGATGGCCCCCCACGGTCCAACCAT
TCAGCACAGGACGCCGTGGATAACTTGCTGCTGCTGTCCAAGGCCAAGTCTGTGTCATCGGAGCGAGAGG
CCTCCCCGAGCAACAGCTGCCAAGACTCCACAGATACAGAGAGCAACGCGGAGGAACAGCGCAGCGGCCT
TATCTACCTAACCAACCACATCAACCCGCATGCACGCAATGGGCTGGCTCTCAAGGAGGAGCAGCGCGCC
TACGAGGTGCTGAGGGCGGCCTCAGAGAACTCGCAGGATGCCTTCCGTGTGGTCAGCACGAGTGGCGAGC
AGCTGAAGGTGTACAAGTGCGAACACTGCCGCGTGCTCTTCCTGGATCACGTCATGTATACCATTCACAT
GGGCTGCCATGGCTTTCGGGATCCCTTTGAGTGTAACATGTGTGGTTATCACAGCCAGGACAGGTACGAG
TTCTCATCCCATATCACGCGGGGGGAGCATCGTTACCACCTGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

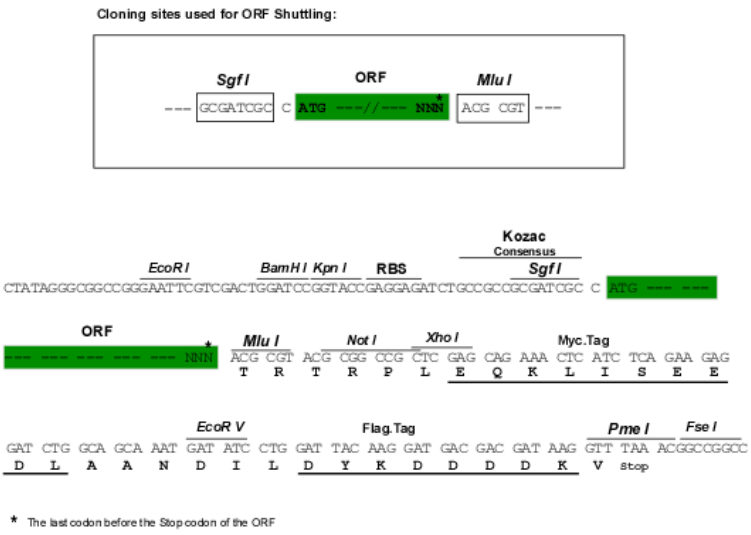
>MR230291 representing NM_001301868
Red=Cloning site Green=Tags(s)

MDVDEGQDMSQVSGKESPPVSDTPDEGDEPMPVPEDLSTTSGAQQNSKSDRGMASNVKVETQSDEENGRA
CEMNGEECAEDLRMLDASGEKMNGSHRDQGSSALSGVGGIRLPNGKLKCDICGIVCIGPNVLMVHKRSHT
GERPFQCNQCGASFTQKGNLLRHIKLHSGEKPFKCHLCNYACRRRDALTGHLRTHSVGKPHKCGYCGRSY
KQRSSLEEHKERCHNYLESMGLPGMYPVIKEETNHNEMAEDLCKIGAERSLVLDRLASNVAKRDKCLSDM
PYDSANYEKEDMMTSHVMDQAINNAINYLGAESLRPLVQTPPGSSEVVPVISSMYQLHKPPSDGPPRSNH
SAQDAVDNLLLLSKAKSVSSEREASPSNSCQDSTDTESNAEEQRSGLIYLTNHINPHARNGLALKEEQRA
YEVLRAASENSQDAFRVVSTSGEQLKVYKCEHCRVLFLDHVMYTIHMGCHGFRDPFECNMCGYHSQDRYE
FSSHITRGEHRYHLS

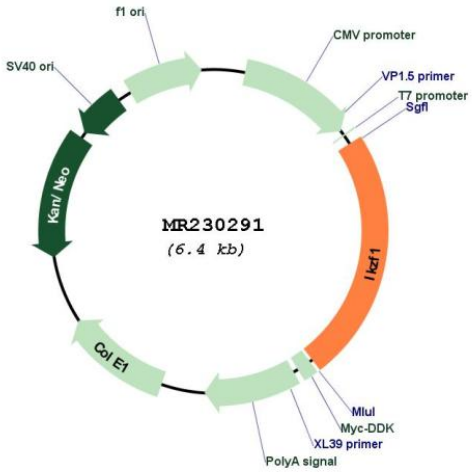
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001301868
ORF Size:	1515 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_001301868.1, NP_001288797.1
RefSeq Size:	5421 bp
RefSeq ORF:	1518 bp
Locus ID:	22778
Cytogenetics:	11 7.02 cM
MW:	56.5 kDa
Gene Summary:	The protein encoded by this gene belongs to a family of transcription factors that are characterized by a set of four DNA-binding zinc fingers at the N-terminus and two C-terminal zinc fingers involved in protein dimerization. It is regulated by both epigenetic and transcription factors. This protein is a transcriptional regulator of hematopoietic cell development and homeostasis. In addition, it is required to confer temporal competence to retinal progenitor cells during embryogenesis, demonstrating an essential function in nervous system development. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2014]