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Product datasheet for MR227509

Ikzf1 (NM_009578) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ikzf1 (NM_009578) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ikzf1
Synonyms:	5832432G11Rik; hlk-1; I; Ikaros; LyF-; LyF-1; mKIAA4227; Zfpn; Zfpn1a1; Znfn1a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR227509 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGTCGATGAGGGTCAAGACATGTCCCAAGTTTCAGGAAAGGAGAGCCCCCCAGTCAGTGACACTC
CAGATGAAGGGGATGAGCCCATGCCTGTCCCTGAGGACCTGTCCACTACCTCTGGAGCACAGCAGAACTC
CAAGAGTGATCGAGGCATGGGTGAACGGCCTTTCCAGTGCAACCAGTGTGGGGCCTCCTTTACCCAGAAA
GGCAACCTCCTGCGGCACATCAAGCTGCACTCGGGTGAGAAGCCCTTCAAATGCCATCTTTGCAACTATG
CCTGCCGCCGGAGGGACGCCCTCACCGGCCACCTGAGGACGCACTCCGTTGGTAAGCCTCACAAATGTGG
ATATTGTGGCCGGAGCTATAAACAGCGAAGCTCTTTAGAGGAGCATAAAGAGCGATGCCACAACTACTTG
GAAAGCATGGGCCTTCCGGGCATGTACCCAGTCATTAAGGAAGAAACTAACCACAACGAGATGGCAGAAG
ACCTGTGCAAGATAGGAGCAGAGAGGTCCCTTGTCCTGGACAGGCTGGCAAGCAATGTCGCCAAACGTAA
GAGCTCTATGCCTCAGAAATTTCTTGGAGACAAGTGCCTGTCAGACATGCCCTATGACAGTGCCAACTAT
GAGAAGGAGGATATGATGACATCCCACGTGATGGACCAGGCCATCAACAATGCCATCAACTACCTGGGGG
CTGAGTCCCTGCGCCCATTGGTGCAGACACCCCCCGGTAGCTCCGAGGTGGTGCCAGTCATCAGCTCCAT
GTACCAGCTGCACAAGCCCCCCTCAGATGGCCCCCCACGGTCCAACCATTCAGCACAGGACGCCGTGGAT
AACTTGCTGCTGCTGTCCAAGGCCAAGTCTGTGTCATCGGAGCGAGAGGCCTCCCCGAGCAACAGCTGCC
AAGACTCCACAGATACAGAGAGCAACGCGGAGGAACAGCGCAGCGGCCTTATCTACCTAACCAACCACAT
CAACCCGCATGCACGCAATGGGCTGGCTCTCAAGGAGGAGCAGCGCGCCTACGAGGTGCTGAGGGCGGCC
TCAGAGAACTCGCAGGATGCCTTCCGTGTGGTCAGCACGAGTGGCGAGCAGCTGAAGGTGTACAAGTGCG
AACACTGCCGCGTGCTCTTCCTGGATCACGTCATGTATACCATTCACATGGGCTGCCATGGCTTTCGGGA
TCCCTTTGAGTGTAACATGTGTGGTTATCACAGCCAGGACAGGTACGAGTTCTCATCCCATATCACGCGG
GGGGAGCATCGTTACCACCTGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

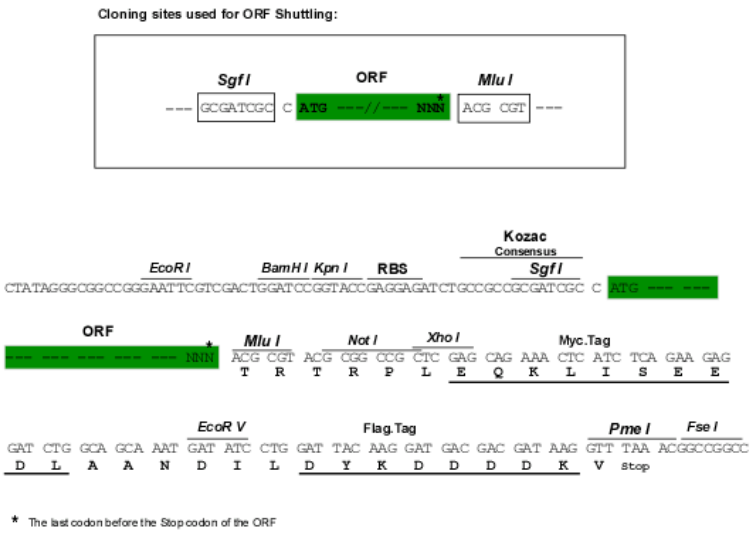
>MR227509 protein sequence
Red=Cloning site Green=Tags(s)

MDVDEGQDMSQVSGKESPPVSDTPDEGDEPMPVPEDLSTTSGAQQNSKSDRGMGERPFQCNQCGASFTQK
GNLLRHIKLHSGEKPFKCHLCNYACRRRDALTGHLRTHSVGKPHKCGYCGRSYKQRSSLEEHKERCHNYL
ESMGLPGMYPVIKEETNHNEMAEDLCKIGAERSLVLDRLASNVAKRKSSMPQKFLGDKCLSDMPYDSANY
EKEDMMTSHVMDQAINNAINYLGAESLRPLVQTPPGSSEVVPVISSMYQLHKPPSDGPPRSNHSAQDAVD
NLLLLSKAKSVSSEREASPSNSCQDSTDTESNAEEQRSGLIYLTNHINPHARNGLALKEEQRAYEVLRAA
SENSQDAFRVVSTSGEQLKVYKCEHCRVLFLDHVMYTIHMGCHGFRDPFECNMCGYHSQDRYEFSSHITR
GEHRYHLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009578

ORF Size: 1287 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_009578.3

RefSeq Size: 5190 bp

RefSeq ORF: 1287 bp

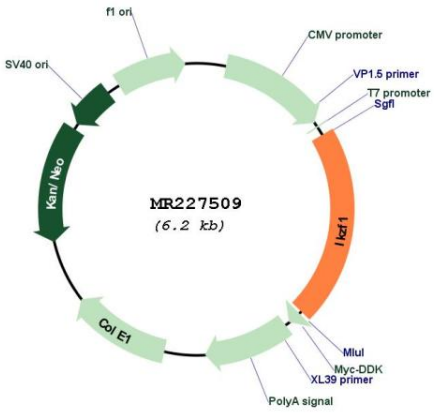
Locus ID: 22778

Cytogenetics: 11 7.02 cM

MW: 48 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]

Product images:



Circular map for MR227509