

## Product datasheet for **MR230336**

### **Ikzf1 (NM\_001301863) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ikzf1 (NM_001301863) 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:**

>MR230336 representing NM\_001301863  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGTCGATGAGGGTCAAGACATGTCCCAAGTTTCAGGAAAGGAGAGCCCCCAGTCAGTGACACTC  
 CAGATGAAGGGGATGAGCCCATGCCTGTCCCTGAGGACCTGTCCACTACCTCTGGAGCACAGCAGAACTC  
 CAAGAGTGATCGAGGCATGGCCAGTAATGTTAAAGTAGAGACTCAGAGTGATGAAGAGAATGGGCGTGCC  
 TGTGAAATGAATGGGGAAGAATGTGCAGAGGATTTACGAATGCTTGATGCCTCGGAGAGAAAAATGAATG  
 GCTCCACAGGGACCAAGGCAGCTCGGCTTTGTGAGGATTGGAGGCATTCGACTTCTAACGAAAACT  
 AAAGTGTGATATCTGTGGGATCGTTTGCATCGGGCCCAATGTGCTCATGGTTACAAAAAGAAGTCATACT  
 GGTGAACGGCCTTTCCAGTGCAACCAAGTGTGGGCCTCCTTACCCAGAAAGGCAACCTCCTGCGGCACA  
 TCAAGCTGCACTCGGGTGAAGCCCTTCAAATGCCATCTTTGCAACTATGCCTGCCGCCGAGGGACGC  
 CCTCACCGGCCACCTGAGGACGCACTCCGTTGGTAAGCCTCACAATGTGGATATTGTGGCCGGAGCTAT  
 AAACAGCGAAGCTCTTTAGAGGAGCATAAAGAGCGATGCCACAACCTACTTGGAAAGCATGGGCCTCCCG  
 GCATGTACCCAGTCATTAAGGAAGAACTAACCACAACGAGATGGCAGAAAGACCTGTGCAAGATAGGAGC  
 AGAGAGGTCCCTGTCTGGACAGGCTGGCAAGCAATGTGCGCAAACGTAAGAGCTCTATGCCTCAGAAA  
 TTTCTTGAGACAAGTGCTGTGAGACATGCCCTATGACAGTGCCAACTATGAGAAGGAGGATATGATGA  
 CATCCACGTGATGGACAGGCCATCAACAATGCCATCACTACCTGGGGGTGAGTCCCTGCGCCCAT  
 GGTGCAGACACCCCGGTAGCTCCGAGGTGGTGCCAGTCATCAGCTCCATGTACCAGCTGCACAAGCCC  
 CCCTCAGATGGCCCCCAGCGTCCAACCATTCAGCACAGGACGCCGTGGATAACTTGCTGCTGCTGTCCA  
 AGGCCAAGTCTGTGTCATCGGAGCGAGAGGCCTCCCCGAGCAACAGCTGCCAAGACTCCACAGATACAGA  
 GAGCAACGCGGAGGAACAGCGCAGCGGCCTTATCTACCTAACCAACCACATCAACCCGATGCACGCAAT  
 GGGCTGGCTCTCAAGGAGGAGCAGCGCGCTACGAGGTGCTGAGGGCGGCCTCAGAGAATCGCAGGATG  
 CCTTCCGTGTGGTCAACGAGTGGCGAGCAGCTGAAGGTGTACAAGTGCGAACACTGCCGCGTGTCTT  
 CCTGGATCACGTATGTATACCATTCACATGGGCTGCCATGGCTTTGGGATCCCTTTGAGTGTAACATG  
 TGTGGTTATCACAGCCAGGACAGGTACGAGTTCTATCCCATATCACGCGGGGGAGCATCGTTACCACC  
 TGAGC

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230336 representing NM\_001301863  
 Red=Cloning site Green=Tags(s)

MDVDEGQDMSQVSGKESPPVSDTPDEGDEPMPVPEDLSTTSGAQNSKSDRGMASNVKVVETQSDEENGR  
 CEMNGEECAEDLRMLDASGEKMNGSHRDQGSALSGVGGIRLPNGKLCIDICGIVCIGPNVLMVHKRSHT  
 GERPFQCNQCGASFTQKGNLLRHIKLSGEKPFKCHLCNYACRRRDALTGHLRTHSVGKPHKCGYCGRSY  
 KQRSSLEEHKERCHNYLESMGLPGMYPVKEETNHNMAEDLCIGAERSLVLDRLASNVAKRKSSMPQK  
 FLGDKCLSDMPYDSANYEKEDMMTSHVMDQAINNAINYLGAESLRPLVQTPPGSSEVVPVSSMYQLHKP  
 PSDGPPRSNHSAQDAVDNLLLLSKAKSVSSEREASPSNSQDSTDTESSAEEQSRGLIYLTNHNPHARN  
 GLALKEEQRAYEVLRAASENSQDAFRVSTSGEQLKVYKCEHCRVFLDHVMTIHMGCHEFRDPFECNM  
 CGYHSQDRYEFSSHITRGEHRYHLS

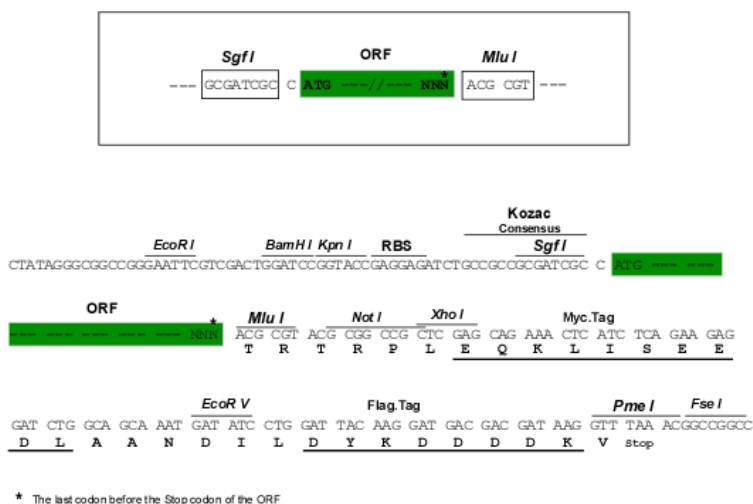
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

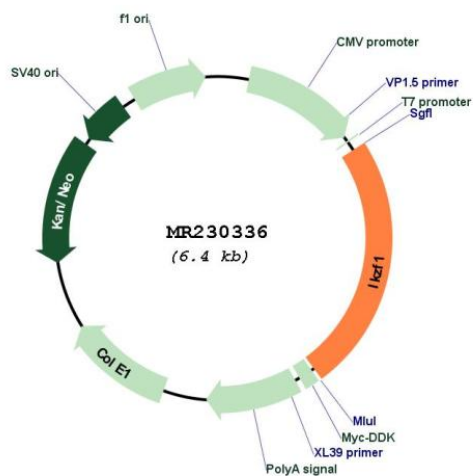
Sgfl-MluI

### Cloning Scheme:

Cloning sites used for ORF Shuttling:



### Plasmid Map:



<b>ACCN:</b>	NM_001301863
<b>ORF Size:</b>	1545 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001301863.1</a> , <a href="#">NP_001288792.1</a>
<b>RefSeq Size:</b>	5120 bp
<b>RefSeq ORF:</b>	1548 bp
<b>Locus ID:</b>	22778
<b>Cytogenetics:</b>	11 7.02 cM
<b>MW:</b>	57.7 kDa
<b>Gene Summary:</b>	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]