

## Product datasheet for **MR208827**

### **Ik (NM\_011879) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ik (NM_011879) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ik
Synonyms:	MuRED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208827 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCAGAACGAGATAGTGAGCCCTTCTCTAACCTTTGGCTCCAGATGGCCACGATGTGGATGATCCTC  
 ATTCTTCCACCAATCAAACTTACCAATGAAGACTTCAGGAACTTCTTATGACCCCAAGAGCTGCACC  
 TACTTCTGCGCCACCTTCTAAGTCACGTACCATGAGATGCCAAGGGAGTACAATGAGGATGAAGACCCA  
 GCTGCACGAAGGAGGAAAAAGAAAGTTATTATGCCAAGCTTCGCCAGCAAGAAATTGAGAGAGAGAGAG  
 AACTCGCAGAGAAATACCGGGACCGTGCCAAGGAACGGAGAGATGGTGTGAACAAAGACTATGAGGAAAC  
 TGAGCTGATAAGTACCACAGCCAACTACAGGGCTGTGGGCCCACTGCTGAGGCGGACAAATCAGCAGCA  
 GAGAAGAGAAGACAGTTGATTCCAGGAGTCCAAATCTTGGGTGGTATGGAACACACCCATTTGGTGA  
 AAGTTTTGGATTTGCGTTGCTTCAAAGGTGCGCGCTGAGATTGCCAGCAAAGAGAAGGAGGAAGAGGA  
 ACTCATGAAAAGCCCCAAAAGGAAACCAAGAAAGATGAGGATCCTGAGAACAAAATTGAATTTAAAACA  
 CGCCTTGCCCGAATGTGTATCGGATGCTTTTCAAGAGTAAATCATATGAGCGAAATGAGCTGTTCTTAC  
 CAGGACGTATGGCCTATGTAGTAGACCTGGATGATGAGTACGCAGACACAGATATCCCCACCACTCTCAT  
 ACGCAGCAAAGCTGATTGCCCACTATGGAGGCCAGACTACACTGACTACAAATGACATTGTTATTAGC  
 AAGCTCACCCAGATTTTGTACACTGAGGCAGGGGACCCGAAACAAGAAGCTCAAGAAGAAGGATAAAG  
 GAAAACCTGGAAGAGAAGAAACCTCTGAGGCTGACATGAACATTTTTGAAGACATTGGGGATTACGTTCC  
 TTCTACAACCAAGACACCTCGGGACAAGGAACGTGAGAGATACCGGAACGTGAACGTGATCGGGAACGG  
 GACAGAGACAGGGAGCGAGACAGGGAGCGAGACCGTGAGAGGGAGAGAGAGCGGAGACCGGGAACGGGAAC  
 GAGAGGAGGAAAAAGAAAAGGCACAGCTACTTTGAGAAGCCAAAAGTGGATGATGAGCCCATGGATGTTGA  
 CAAAGGACCTGGATCTGCAAAAGAGTTGATCAAGTCCATCAATGAAAAATTCGCTGGGTCTGCTGGCTGG  
 GAAGGCCTGAATCGTTGAAGAAGCCAGAAGATAAGAAGCAGCTGGGCGATTTCTTTGGCATGTCCAACA  
 GTTACGCAGAATGCTATCCAGCCACGATGGATGACATGGCTGTAGATAGTATGATGAAGAGGTAGATTATAG  
 CAAAATGGACCAGGGTAACAAGAAGGTCCTTAGGCCGCTGGGACTTCGATACTCAGGAGGAATACAGC  
 GAGTACATGAACAACAAGGAGGCTCTGCCCAAGGCTGCATTCCAGTATGGCATCAAGATGTCTGAAGGAC  
 GGGAAAACAGACGATTCAAAGAAACCAATGATAAGGCAGAGCTTGATCGACAGTGAAGAAAATAAGTGC  
 AATCATTGAGAAGAGGAAGAGGATGGAAGCAGATGGGGTGAAGTGAAGAACCAAGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

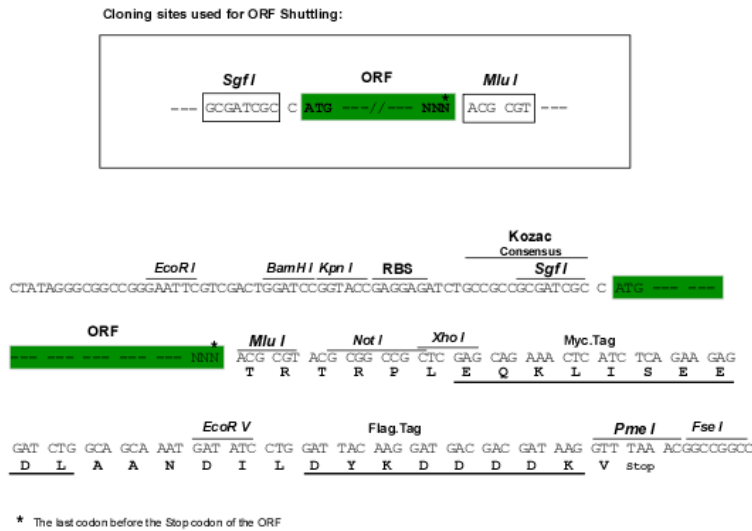
>MR208827 protein sequence  
 Red=Cloning site Green=Tags(s)

MPERDSEPF SNPLAPDGHVDDPHSFHQSKLTNEDFRKLLMTPRAAPTSAPPSKSRHHEMPREYNEDEP  
 AARRRKKKSYAKLRQOEIERERELAKEYRDRAKERRDGVNKDYEEETELISTTANYRAVGPTAEADKSA  
 EKRRQLIQESKFLGGMEHHLVKGLDFALLQKVRAEIASKEKEEEEELMEKPQKETKKDEDPENKIEFKT  
 RLGRNVYRMLFKSKSYERNELFLPGRMAYVVDLDDEYADTDIPTTLIRSKADCPTMEAQTTLTNDIVIS  
 KLTQILSYLRQGRNKKLKKDKGKLEEKPPPEADMNIFEDIGDYVPSTTKTPRDKERERYRERDRER  
 DRDRERDREREREREREREREKRRHSYFEKPKVDDEPMDVDKPGSAKELIKSINEKFAGSAGW  
 EGTESLKKPEDKKQLGDFFGMSNSYAECYPATMDDMAVDSDEEVDYSKMDQGNKKGPLGRWDFDTQEEYS  
 EYMNNKEALPKAAFQYGIKMSSEGRKTRRFKETNDKAELDRQWKKISAIIEKRKRMEADGVEVKRPKY

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_011879

**ORF Size:** 1674 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\\_011879.2](#)
**RefSeq Size:** 1996 bp

**RefSeq ORF:** 1674 bp

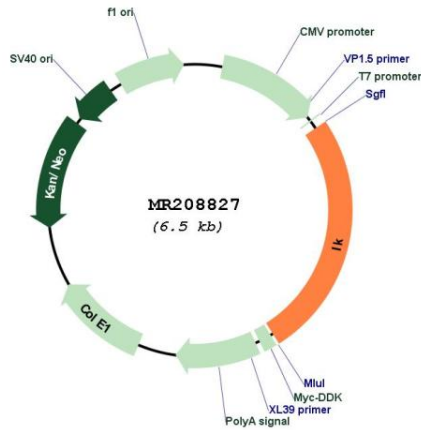
**Locus ID:** 24010

**UniProt ID:** [Q9Z1M8](#)

**Cytogenetics:** 18 B2  
**MW:** 65.6 kDa

**Gene Summary:** Involved in pre-mRNA splicing as a component of the spliceosome. Auxiliary spliceosomal protein that regulates selection of alternative splice sites in a small set of target pre-mRNA species. Required for normal mitotic cell cycle progression. Recruits MAD1L1 and MAD2L1 to kinetochores, and is required to trigger the spindle assembly checkpoint. Required for normal accumulation of SMU1.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208827