

Product datasheet for **MR207406**

MIkl (NM_029005) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIkl (NM_029005) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIkl
Synonyms:	9130019I15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207406 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATAAATGGGACAGATCATCAAGTTAGGCCAGCTCATCTATGAACAGTGTGAAAAGATGAAATACT
 GCCGAAAACAATGCCAGCGTCTAGGAAACCGTGTGCACGGCTGTACAGCTCTCCAGAGACTCCAGGC
 CCAAGGAAAGAAGAACCTGCCCGATGACATTACTGCTGCCCTGGGCCGTTTTGATGAAGTCTGAAGGAG
 GCTAACACAGCAGATAGAAAAGTTCAGCAAGAAGTCCCATATTTGGAAGTTTGTGAGTGTGGGCAATGATA
 AGATCCTCTTCCATGAAGTGAATGAGAAGCTGAGAGACGTCTGGGAGGAGCTGTTGCTGCTTCCAGGT
 TTATCATTGGAATACCGTTTCAGATGTCAGCCAGCCAGCATCCTGGCAGCAGGAAGATCGACAGGATGCA
 GAGGAAGACGGAAATGAAAATATGAAAGTTATCCTGATGCAGTTGCAAAATAGCGTGAAGAAAATCAACA
 AAACCTGAAGCAATGCTCACTAAAACCCACACAGGAGATCCCACAAGATCTCCAATCAAGGAGATTCC
 AAAGAACATCTTGGACCTCCGTGGACCAAACCTGAAGACAAGTAAATGAGCACCATTTATAGAGGAGAG
 TATCACAGATCTCCAGTTACCATCAAAGTATCAACAACCCCGAGCCGAAAGTGTGGAATAGTGAAGT
 TCACTTTCAATGACGAGATCAAAACCATGAAGAAATTCGATTCTCCCAACATCTTGCATATATTTGGAT
 TTGCATTGATCAAACAGTGAAGCCCCCTGAGTTCTCCATTGTCATGGAGTACTGTGAACCTTGAACCCCTG
 AGGGAAGTGTGGATAGAGAAAAAGACCTCACAATGAGTGTGCGCAGCCTCCTAGTCTGAGGGCAGCCA
 GAGGCTTATACAGGCTACACCATTCCGAAACACTCCACAGAAACATCAGCAGCTCCAGTTTCTCGTAGC
 CGGAGGCTACCAAGTAAAGCTTGCAGGATTTGAGTTAAGCAAAACACAGAATCCATCAGCCGGACAGCA
 AAGAGCACTAAAGCAGAGAGATCCAGTTCAACGATATATGTCTCCCTGAGAGACTGAAAATCCATTTT
 GCCTTTATGACATAAAAGCTGAAATATATAGCTTTGGAATTGTACTCTGGGAAATGCCACTGGAAGAT
 CCCATTTGAAGGCTGTGATTCTAAGAAGATCCGGGAGCTGGTGGCTGAGGACAAGAAGCAGGAACCAAGT
 GGTGAGGATTGCCCTGAGTTGTTGCGGGAAATCATTAAATGAGTGTGCGCCATGAGCCCTCCCAACGGC
 CCTCTGTGGACGGAATCTGGAGAGACTGTCTGCGGTTGAAGAATCCACGGACAAGAAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207406 protein sequence
 Red=Cloning site Green=Tags(s)

MDKLGQIIKLGQLIYEQCEKMKYCRKQCQRLGNRVHGLLQPLQRLQAQGGKKNLPDDITAALGRFDEVLKE
 ANQQIEKFSKKSIIWKFVSVGNDKILFHEVNEKLRDVWEELLLLLQVYHWNTVSDVSPASWQQEDRQDA
 EEDGNENMKVILMQLQISVEEINKTLKQCSLKPTEIPQDLQIKEIPKEHLGPPWTKLKTSMSTIYRGE
 YHRSPVTIKVFNNPQAESVGIVRFNFDEIKTMKKFDSNPILRIFGICIDQTVKPPPEFSIVMEYCELGTL
 RELLDREKDLTMSVRSLLVLAARGLYRLHHSETLHRNISSSSFLVAGGYQVLAGFELSKTQNSISRTA
 KSTKAERSSTIYVSPERLKNPFCLYDIKAEIYSFGIVLWEIATGKIPFEGCDSKIRELVAEDKKQEPV
 GDQCEPELLREIINECRAHEPSQRPSVDGILERLSAVEESTDKKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_029005

ORF Size: 1395 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_029005.3](#)

RefSeq Size: 1702 bp

RefSeq ORF: 1395 bp

Locus ID: 74568

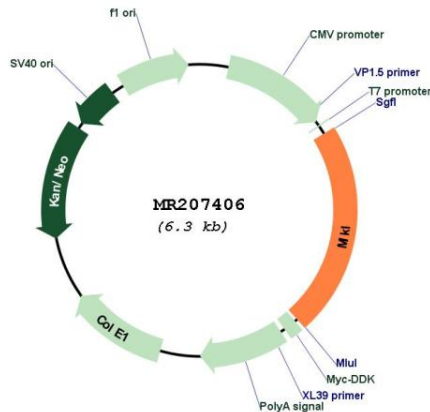
UniProt ID: [Q9D2Y4](#)

Cytogenetics: 8 E1

MW: 53.4 kDa

Gene Summary: This gene belongs to the protein kinase superfamily. The encoded protein contains a protein kinase-like domain; however, is thought to lack protein kinase activity. This protein plays a critical role in tumor necrosis factor (TNF)-induced necroptosis, a programmed cell death process, via interaction with receptor-interacting protein 3 (Rip3), which is a key signaling molecule in necroptosis pathway. Knockout of this gene in mice showed that it is essential for necroptosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR207406