

Product datasheet for **MR220585**

Il18rap (NM_010553) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il18rap (NM_010553) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Il18rap
Synonyms:	AcPL; IL-1RAcPL; IL-18R-beta; IL-18RAcP; IL-18Rbeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220585 representing NM_010553
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCTGTTGGGCTGGGTGTTTCTTTGGTTTGTTCAGGAGAGAAGACCACAGGATTTAATCATTTCAG
 CTTGTGCCACCAAAAACTTCTGTGACATATTCTGCAAGGGTGCAGAGAATTTTGCCTATTTTGTGA
 CTTACAAGAGCTTCAGGAGCAAAAATTCTCCCATGCAAGTCAACTGTACCAACACAAAAGTCCTGCTCAC
 AAACCTTCGAGTGGCAGTCAGAAGGACCTATCTGATGTCCAGTGGTACATGCAACCTCGGAGTGGAAAGTC
 CACTAGAGGAGATCAGTAGAAACTCTCCCATATGCAGAGTGAAGGCATGCTGCATATATTGGCCCCACA
 GACGAACAGCATTGGTCATATATTTGTAGACCCAGAATTAGGAGCCCCAGGATATGGCCTGTTGTATC
 AAGACAGTCTTAGAAGTTAAGCCTCAGAGAAACGTGTCTGTGGGAACACAGCACAAGATGAACAAGTCC
 TACTTCTTGGCAGTACTGGCTCCATTCTTGTCCAGTCTCAGCTGCCAAAGTATGATACAGAGTCCAGA
 GATGACCTGGTACAAGGATGGAAGACTACTTCTGAGCACAAGAAAAATCCAATTGAGATGCCAGATATT
 TATGTTTTTAATCAAGGCTTGTATGTATGTGATTACACACAGTCAGATAATGTGAGTTCCCTGGACAGTCC
 GAGCTGTGGTTAAAGTGAGAACCATTGGTAAGGACATCAATGTGAAGCCGAAATTTCTGGATCCCATTAC
 AGATACACTGGACGTAGAGCTTGAAAGCCTTTAACTCTCCCCTGCAGAGTACAGTTTGGCTTCCAAAGA
 CTTTCAAAGCCTGTGATAAAGTGGTATGTCAAAGAATCTACACAGGAGTGGGAAATGTCAGTATTTGAGG
 AGAAAAGAATTCATCCACTTCAAGAATGAAGTCATTGAACGTACCATCTTCTTGGAGAGAAGTTACCCA
 GAGAGATCTCAGCAGAAAGTTTGTGTTTGTGTTTGGCCAGAACTCCATTGGGAACACAACACGGACCATACGG
 CTGAGGAAGAAGGAGAGGTGGTGTGTTGATACATCCTTCTCGGCACGGCCTTGTGCTGGTGGCGTTC
 TGGTGGCAGCTGCTTTCCTCTACTGGTACTGGATTGAAGTTGCTCTGCTGTCGAACCTACAAGAACA
 AGATGAGACTCTGGGGGATAAGAAGGAATTCGATGCATTTGTATCCTACTCGAATTGGAGCTCTCCTGAG
 ACTGACGCCGTGGGATCTCTGAGTGAGGAACACCTGGCTCTGAATCTTTCCCGAAGTGTAGAAGACA
 CCTATGGGTACAGATTGTGTTTGTGTTGACCCGAGATGTGACCCAGGAGGAGTGTATGCAGATGACATTGT
 GAGCATCATTAAAGAAAAGCCGAAGAGGAATATTTATCCTGAGTCCAGCTACCTCAATGGACCCCGTGTCT
 TTTGAGCTACAAGCAGCAGTGAATCTTGCCTGGTTGATCAGACACTGAAGTTGATTTTAATTAAGTTCT
 GTTCTTCCAAGGCCAGAATCTTCTTACCTTGTCAAAAAGGCTCTGCGGGTCTCCCACAGTCAC
 ATGAAAAGGCTTGAAGTCGGTCCAGCCAGTCCAGGTTCTGGACCCAAATTCGTTACCACATGCCTGTG
 AAGAACTCCAACAGGTTTATGTTCAACGGGCTCAGAATTTCTGAAGGGCTTTTCCCCTGAAAAGGACC
 TAGTGACACAGAAACCCCTGGAAGGAATGCCAAGTCTGGAATGACCACGGAGCTCAGAACCTCCTTCT
 CTACAGTGACCAGAAGAGGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220585 representing NM_010553
 Red=Cloning site Green=Tags(s)

MLCLGWVFLWFVAGEKTTGFNHSACATKKLLWTYSARGAENFVLFCDLQELQEQLKFSHASQLSPTQSPA
 KPCSGSQKDLSDVQWYMQPRSGSPLLEEISRNPHMQSEGMLHILAPQNSIWSYICRPRIRSPQDMACCI
 KTVLEVQPQRNVSCGNTAQDEQVLLLGSTGSIHCPSSLSCQSDVQSPEMTWYKDGRLPEHKKNPIEMADI
 YVFNQGLYVCDYQSDNVSSWTVRAVVKVVRTIGKDINVKPEILDPITDLDVELGKPLTLPQVQVGFQR
 LSKPVIKWYVKESTQEWEMSVFEEKRIQSTFKNEVIERTIFLREVTQRDLRKFVCFQAQNSIGNTRTIR
 LRKKEEVVYVYILLGTALMLVGLVAAAFLYWYWIEVLLCRITYKNKDETLGDKKEFDVFSYSNWSPE
 TDAVGSLSSEHLALNLFPEVLEDYGYRLCLLDRDVTGGVYADDIVSIIKKSRRGIFILSPSYLNGPRV
 FELQAAVNLALVDQTLKILIKFCSFQEPESLPYLKALKALRVLPVTWGLKSVHASSRFWTQIRYHMPV
 KNSNRFMFNGLRIFLKGFSPEKDLVTQKPLEGMPKSGNDHGAQNLLLYSYDQKRC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9014_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010553

ORF Size: 1842 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_010553.4](#), [NP_034683.1](#)

RefSeq Size: 2496 bp

RefSeq ORF: 1845 bp

Locus ID: 16174

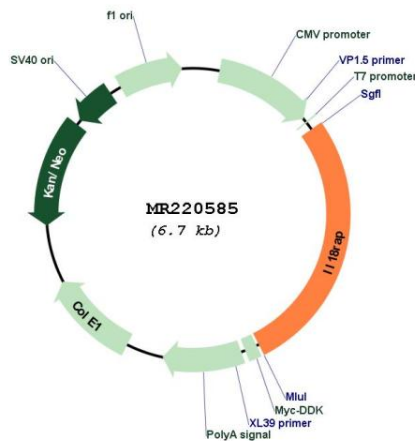
UniProt ID: [Q9Z2B1](#)

Cytogenetics: 1 B

MW: 70.5 kDa

Gene Summary: Interleukin-18 (or interferon-gamma inducing factor) is a proinflammatory cytokine that induces cell-mediated immunity following microbial infection. This gene encodes a member of the interleukin-1 receptor family. The encoded protein is an accessory subunit of the receptor for interleukin-18 and mediates signaling through this cytokine. Mice lacking this gene exhibit a defective cell-mediated immune response. [provided by RefSeq, Jan 2014]

Product images:



Circular map for MR220585