

Product datasheet for **MR219426**

Il10ra (NM_008348) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il10ra (NM_008348) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Il10ra
Synonyms:	AW553859; CDw210; CDw210a; IL-10R1; IL-10RA; Il10r; mL-10R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219426 representing NM_008348
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTGTCGCGTTTGTCTCCATTCTCGTCACGATCTCCAGCCTGAGCCTAGAATTCATTGCATACGGGA
 CAGAACTGCCAAGCCCTTCTATGTGTGGTTGAAGCCAGATTTTCCAGCACATCTCCACTGGAACC
 TATCCCAAACAGTCTGAGAGCACCTACTATGAAGTGGCCCTCAAACAGTACGAAACTCAACTGGAAT
 GACATCCATATCTGTAGAAAGGCTCAGGCATTGTCTGTGATCTCACAACGTTCCACCCTGGATCTGTATC
 ACCGAAGCTATGGCTACCGGGCCAGAGTCCGGGCAGTGGACAACAGTCAGTACTCCAAGTGGACCACCAC
 TGAGACTCGTTCACAGTGGATGAAGTATTCTGACAGTGGATAGCGTACTCTGAAAGCAATGGACGGC
 ATCATCTATGGGACAATCCATCCCCCAGGCCACGATAACCCCTGCAGGGGATGAGTACGAACAAGTCT
 TCAAGGATCTCCGAGTTACAAGATTTCCATCCGGAAGTTCTCAGAACTAAAGAATGCAACCAAGAGAGT
 GAAACAGGAAACCTTCCCTCACGGTCCCATAGGGGTGAGAAAGTTTGTGTCAAGGTCTGCCCCGC
 TTGGAATCCCGAATTAACAAGGCAGAGTGGTCCGAGGAGCAGTGTACTTATCAGCAGGAGCAGTATT
 TCACTGTGACCAACCTGAGCATCTTAGTCATATCTATGCTGCTATTCTGTGGAATCCTGGTCTGTCTGGT
 TCTCCAGTGGTACATCCGGCACCCGGGGAAGTTGCCTACAGTCTGGTCTTCAAGAAGCCTCACGACTTC
 TTCCAGCCAACCTCTCTGCCAGAACTCCCGATGCCATTCACATCGTGGACCTGGAGTTTTCCCAA
 AGGTGTCACTAGAGCTGAGAGACTCAGTCTGCATGGCAGCACCGACAGTGGCTTTGGCAGTGGTAAACC
 ATCACTTCAGACTGAAGAGTCCCAATTCCTCCTCCCTGGTCCCACCCAGATACAGGGGACTCTGGGA
 AAAGAAGAGTCTCCAGGGCTACAGGCCACTGTGGGACAACACGGACAGTGGGATCTGCCTGCAGGAGC
 CCGGCTTACACTCCAGCATGGGGCCCGCCTGGAAGCAGCAGCTTGATATACCCATCAGGACCAAGTGA
 CAGTGACGTTAACCTAGTCCAGAACTCTCAGGGCAGCCTAAGTACACACAGGATGCATCTGCCTTGGGC
 CATGTCTGTCTCCTAGAACCTAAAGCCCTGAGGAGAAAGACCAAGTCATGGTGACATTCAGGGCTACC
 AGAAACAGACCAGATGGAAGGCAGAGGCAGCAGGCCAGCAGAATGCTTGGACGAAGAGATTCCCTTGAC
 AGATGCCTTTGTCTGAACTTGGGTACACCTGCAGGATGATTTGGCTTGGCCTCCACCAGCTCTGGCC
 GCAGGTTATTTGAAACAGGAGTCTCAAGGGATGGCTTCTGCTCCACCAGGGACACCAAGTAGACAGTGA
 ATCAACTGACCGAAGAGTGGTCACTCCTGGGTGTGGTTAGCTGTGAAGATCTAAGCATAGAAAGTTGGAG
 GTTTGCCATAAACTTGACCCTCTGGACTGTGGGGCAGCCCTGGTGGCCTCCTGGATAGCCTTGGCTCT
 AACCTGGTCACCCTGCCGTTGATCTCCAGCCTGCAGGTAGAAGAA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219426 representing NM_008348
 Red=Cloning site Green=Tags(s)

MLSRLLPFLVTISSLSEFIAYGTELPSPSYVWFPEARFFQHILHWKPIPQSESTYYEVALKQYGNSTWN
 DIHICRKAQALSCDLTFTLDLYHRSYGYRVRVDNSQYSNWTTTETRFVDEVILTVDSVTLKAMDG
 IYGTIHPPRPTITPAGDEYEQVFKDLRVYKISIRKFSSELKNATKRKQETFTLVPIGVRKFCVKVLP
 LESRINKAEWSEEQCLLITTEQYFTVTNLSILVISMLLFCGILVCLVLQWYIRHPGKLPVLFKPHDF
 FPANPLCPETPDIAIHIVDLEVFVKVLELSDVSLHGSTDSTGSGKPSLQTEESQFLLPGSHPQIQGTG
 KEESPLQATCGDNTDSGICLQEPGLHSSMGPWKQQLGYTHQDQDSDVNLVQNSPGQPKYTQDASALG
 HVCLLEPKAPEEKDQVMVTFQGYQKQTRWKAEEAAGPAECLDEEIPLTDAFDPELVHLDLAWPPPALA
 AGYLKQESQGMASAPPGTPSRQWNQLTEWSSLGTVVSCEDLSIESWRFHKLDPDCGAAPGGLLDLSLGS
 NLVTLPLISSLQVEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1375_e04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_008348

ORF Size: 1725 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_008348.3](#)

RefSeq Size: 3493 bp

RefSeq ORF: 1728 bp

Locus ID: 16154

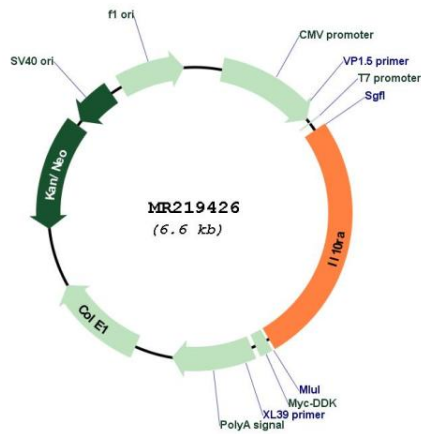
UniProt ID: [Q61727](#)

Cytogenetics: 9 24.84 cM

MW: 64.7 kDa

Gene Summary: Cell surface receptor for the cytokine IL10 that participates in IL10-mediated anti-inflammatory functions, limiting excessive tissue disruption caused by inflammation. Upon binding to IL10, induces a conformational change in IL10RB, allowing IL10RB to bind IL10 as well. In turn, the heterotetrameric assembly complex, composed of two subunits of IL10RA and IL10RB, activates the kinases JAK1 and TYK2 that are constitutively associated with IL10RA and IL10RB respectively. These kinases then phosphorylate specific tyrosine residues in the intracellular domain in IL10RA leading to the recruitment and subsequent phosphorylation of STAT3 (PubMed:8910398). Once phosphorylated, STAT3 homodimerizes, translocates to the nucleus and activates the expression of anti-inflammatory genes. In addition, IL10RA-mediated activation of STAT3 inhibits starvation-induced autophagy (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219426