

## Product datasheet for **MG219426**

### **Il10ra (NM\_008348) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Il10ra (NM_008348) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Il10ra
Synonyms:	AW553859; CDw210; CDw210a; IL-10R1; IL-10RA; Il10r; mL-10R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG219426 representing NM\_008348  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTGTCGCGTTTGTCCATTCTCGTCACGATCTCCAGCCTGAGCCTAGAATTCATTGCATACGGGA  
 CAGAACTGCCAAGCCCTTCTATGTGTGGTTGAAGCCAGATTTTCCAGCACATCTCCACTGGAACC  
 TATCCCAAACCAGTCTGAGAGCACCTACTATGAAGTGGCCCTCAAACAGTACGAAACTCAACTGGAAT  
 GACATCCATATCTGTAGAAAGGCTCAGGCATTGCTGTGATCTCACAACGTTCCACCCTGGATCTGTATC  
 ACCGAAGCTATGGCTACCGGGCCAGAGTCCGGCAGTGGACAACAGTCAGTACTCCAAGTGGACCACCAC  
 TGAGACTCGTTCACAGTGGATGAAGTATTCTGACAGTGGATAGCGTACTCTGAAAGCAATGGACGGC  
 ATCATCTATGGGACAATCCATCCCCCAGGCCACGATAACCCCTGCAGGGGATGAGTACGAACAAGTCT  
 TCAAGGATCTCCGAGTTACAAGATTTCCATCCGGAAGTTCTCAGAACTAAAGAATGCAACCAAGAGAGT  
 GAAACAGGAAACCTTCCCTCACGGTCCCATAGGGGTGAGAAAGTTTGTGTCAAGGTCTGCCCCGC  
 TTGGAATCCCGAATTAACAAGGCAGAGTGGTCCGAGGAGCAGTGTACTTATCACGACGGAGCAGTATT  
 TCACTGTGACCAACCTGAGCATCTTAGTCATATCTATGCTGCTATTCTGTGGAATCCTGGTCTGTCTGGT  
 TCTCCAGTGGTACATCCGGCACCCGGGGAAGTTGCCTACAGTCTGGTCTTCAAGAAGCCTCACGACTTC  
 TTCCCAGCCAACCTCTCTGCCAGAACTCCCGATGCCATTCACATCGTGGACCTGGAGGTTTTCCCAA  
 AGGTGTCACTAGAGCTGAGAGACTCAGTCTGCATGGCAGCACCGACAGTGGCTTTGGCAGTGGTAAACC  
 ATCACTTCAGACTGAAGAGTCCCAATTCCTCCTCCCTGGCTCCCACCCAGATACAGGGGACTCTGGGA  
 AAAGAAGAGTCTCCAGGGCTACAGGCCACTGTGGGACAACACGGACAGTGGGATCTGCCTGCAGGAGC  
 CCGGCTTACACTCCAGCATGGGGCCCGCCTGGAAGCAGCAGCTTGATATACCCATCAGGACCAGGATGA  
 CAGTGACGTTAACCTAGTCCAGAATCTCCAGGGCAGCCTAAGTACACACAGGATGCATCTGCCTTGGGC  
 CATGTCTGTCTCCTAGAACCTAAAGCCCTGAGGAGAAAGACCAAGTATGGTGACATTCAGGGCTACC  
 AGAAACAGACCAGATGGAAGGCAGAGGCAGCAGGCCAGCAGAATGCTTGGACGAAGAGATTCCCTTGAC  
 AGATGCCTTTGATCCTGAACTTGGGGTACACCTGCAGGATGATTTGGCTTGGCCTCCACCAGCTCTGGCC  
 GCAGGTTATTTGAAACAGGAGTCTCAAGGGATGGCTTCTGCTCCACCAGGGACACCAAGTAGACAGTGGAA  
 ATCAACTGACCGAAGAGTGGTCACTCCTGGGTGTGGTTAGCTGTGAAGATCTAAGCATAGAAAGTTGGAG  
 GTTTGCCATAAACTTGACCCTCTGGACTGTGGGGCAGCCCTGGTGGCCTCCTGGATAGCCTTGGCTCT  
 AACCTGGTCACCCTGCCGTTGATCTCCAGCCTGCAGGTAGAAGAA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG219426 representing NM\_008348  
 Red=Cloning site Green=Tags(s)

MLSRLLPFLVTISSLSEFIAYGTELPSPSYVWFPEARFFQHILHWKPIPQSESTYYEVALKQYGNSTWN  
 DIHICRKAQALSCDLTTFDLTYHRSYGYRVRVDNSQYSNWTTTETRFVDEVILTVDVTLKAMDG  
 IYGTIHPPTITPAGDEYEQVFKDLRVYKISIRKFSSELKNATKRVKQETFTLTVPIGVRKFCVKVLP  
 LESRINKAEWSEEQCLLITTEQYFTVNLISILVISMLLFCGILVCLVLQWYIRHPGKLPVLFKPHDF  
 FPANPLCPETPDIAIHVDLEVPKVSLELRDSVLHGSTDGSGFGKPSLQTEESQFLLPGSHPQIQGTLG  
 KEESPGLQATCGDNTDSGICLQEPGLHSSMGPAAWKQQLGYTHQDQDSDVNLVQNSPGQPKYTQDASALG  
 HVCLLEPKAPEEKDQVMVTFQGYQKQTRWKAEEAAGPAECLDEEIPLTDAFDPELVHLDLAWPPPALA  
 AGYLKQESQGMASAPPGTPSRQWNQLTEEWSLLGVVSCEDLSIESWRFHKLKLDPLDCGAAPGGLDLSLGS  
 NLVTLPLISSLQVEE

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

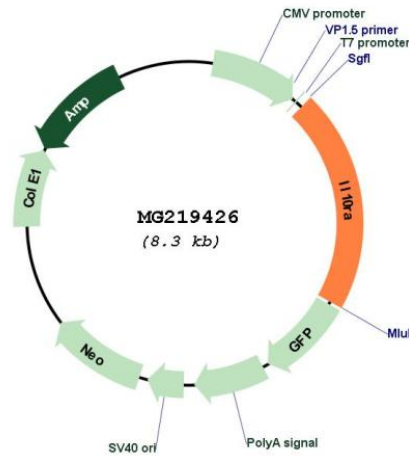
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_008348  
 ORF Size: 1725 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_008348.3</a>
<b>RefSeq Size:</b>	3493 bp
<b>RefSeq ORF:</b>	1728 bp
<b>Locus ID:</b>	16154
<b>UniProt ID:</b>	<a href="#">Q61727</a>
<b>Cytogenetics:</b>	9 24.84 cM
<b>Gene Summary:</b>	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]