

## Product datasheet for MR227281

### Il6 (NM\_031168) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Il6 (NM\_031168) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Il6  
**Synonyms:** Il; Il-6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227281 representing NM\_031168  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTTCCTCTCTGCAAGAGACTTCCATCCAGTTGCCTTCTTGGGACTGATGCTGGTGACAACCCAGG  
CCTTCCCTACTTCACAAGTCCGGAGAGGAGACTTCACAGAGGATACCACTCCCAACAGACCTGTCTATAC  
CACTTCACAAGTCGGAGGCTTAATTACACATGTTCTCTGGGAAATCGTGGAAATGAGAAAAGAGTTGTGC  
AATGGCAATTCTGATTGTATGAACAACGATGATGCACTGCAGAAAACAATCTGAACTTCCAGAGATAC  
AAAGAAATGATGGATGCTACCAAATGGATATAATCAGGAAATTTGCCTATTGAAAATTTCTCTGGTCT  
TCTGGAGTACCATAGCTACCTGGAGTACATGAAGAACAATTTAAAGATAACAAGAAAGACAAGCCAGA  
GTCCTTCAGAGAGATACAGAACTCTAATTCATATCTTCAACCAAGAGGTAAGATTTACATAAAATAG  
TCCTTCTACCCAATTTCCAATGCTCTCCTAACAGATAAGCTGGAGTCACAGAAGGAGTGGCTAAGGAC  
CAAGACCATCCAATTCATCTTGAATCACTTGAAGAATTTCTAAAAGTCACTTTGAGATCTACTCGGCAA  
ACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR227281 representing NM\_031168  
Red=Cloning site Green=Tags(s)

MKFLSARDFHPVAFGLMLVTTTAFPTSQVRRGDFTEDTTPNRPVYTTSQVGLITHVLWEIVEMRKELC  
 NGNSDCMNNDDALAENNLKLP EIQRNDGCYQTGYNQEICLLKISSGLLEYHSYLEYMKNNLKDNKKDKAR  
 VLQRDTE TLIHIFNQEVKDLHKIVLPTPI SNALLTDKLESQKEWLRKTIQFILKSLEEFKVTLRSTRQ  
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_031168

**ORF Size:** 633 bp

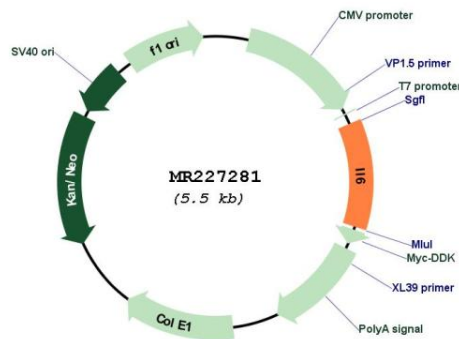
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<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>	<u><a href="#">NM_031168.2</a></u>
<b>RefSeq Size:</b>	1087 bp
<b>RefSeq ORF:</b>	636 bp
<b>Locus ID:</b>	16193
<b>UniProt ID:</b>	<u><a href="#">P08505</a></u>
<b>Cytogenetics:</b>	5 15.7 cM
<b>MW:</b>	24.8 kDa
<b>Gene Summary:</b>	This gene encodes a member of the interleukin family of cytokines that have important functions in immune response, hematopoiesis, inflammation and the acute phase response. The ectopic overexpression of the encoded protein in mice results in excessive plasma cells in circulation, leading to death. Mice lacking the encoded protein exhibit abnormalities in hepatic acute phase response, some immune mechanisms, bone resorption in response to estrogen, liver regeneration and wound healing. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]

### Product images:



Circular map for MR227281