

## Product datasheet for MR203602

### Il1a (NM\_010554) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Il1a (NM_010554) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Il1a
Synonyms:	Il-1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203602 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAAAGTTCCTGACTTGTTTGAAGACCTAAAGAAGTGTACAGTGAAAATGAAGACTACAGTTCTG  
CCATTGACCATCTCTCTGAATCAGAAATCCTTCTATGATGCAAGCTATGGCTCACTTCATGAGACTTG  
CACAGACCAGTTTGTATCTCTGAGAACCTCTGAAACGTCAAAGATGTCCAACCTTCACCTCAAGGAGAGC  
CGGGTGACAGTATCAGCAACGTCAAGCAACGGGAAGATTCTGAAGAAGAGACGGCTGAGTTTCAGTGAGA  
CCTTCACTGAAGATGACCTGCAGTCCATAACCCATGATCTGGAAGAGACCATCCAACCCAGATCAGCACC  
TTACACCTACCAGAGTGATTTGAGATACAACTGATGAAGCTCGTCAGGCAGAAGTTTGTCATGAATGAT  
TCCTCAACCAAACTATATATCAGGATGTGGACAAACACTATCTCAGCACCACCTGGTTAAATGACCTGC  
AACAGGAAGTAAAATTTGACATGTATGCCTACTCGTCGGGAGGAGATGACTCTAAATATCCTGTTACTCT  
AAAAATCTCAGATTCACAACCTGTTTCGTGAGCGCTCAAGGAGAAGACCAGCCCGTGTGGTGAAGGAGTTG  
CCAGAAACACCAAACTCATCACAGGTAGTGAGACCGACCTCATTTTCTTCTGAAAAAGTATCAACTCTA  
AGAACTACTTCACATCAGCTGCTTATCCAGAGCTGTTTATTGCCACCAAGAACAAGTCCGGTGACCT  
GGCACGGGGACTGCCCTATGACAGACTTCCAGATATCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203602 protein sequence  
Red=Cloning site Green=Tags(s)

MAKVPDFLFEDLKNCSYSENEYSSAIDHLSLNQKSFYDASYGSLHETCTDQFVSLRTSETSKMSNFTFKES  
 RVTVSATSSNGKILKRRLSFSETFTEDDLQSIHDLLEETIQPRSAPTYQSDLRYKLMKLVKQKFMND  
 SLNQTIYQDVKHYLSTTWLNDLQQEVKFDMYAYSSGGDSKYPVTLKISDSQLFVSAQGEDQPVLKEL  
 PETPKLITGSETDLIFFWKSINSKNYFTSAAYPELFIATKEQSRVHLARGLPSTMTDFQIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010554

**ORF Size:** 813 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\\_010554.2](#), [NM\\_010554.3](#), [NM\\_010554.4](#), [NP\\_034684.2](#)

**RefSeq Size:** 1974 bp

**RefSeq ORF:** 813 bp

**Locus ID:** 16175

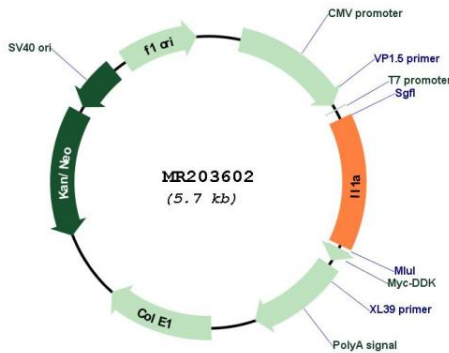
**UniProt ID:** [P01582](#)

**Cytogenetics:** 2 62.9 cM

**MW:** 31 kDa

**Gene Summary:** Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR203602