

Product datasheet for **MG203602**

Il1a (NM_010554) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il1a (NM_010554) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Il1a
Synonyms:	Il-1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203602 representing NM_010554 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAAGTTCCTGACTTGTTTGAAGACCTAAAGAAGTGTACAGTGAAAATGAAGACTACAGTTCTG
CCATTGACCATCTCTCTGAATCAGAAATCCTTCTATGATGCAAGCTATGGCTCACTTCATGAGACTTG
CACAGACCAGTTTGTATCTCTGAGAACCTCTGAAACGTCAAAGATGTCCAACCTTCACCTCAAGGAGAGC
CGGGTGACAGTATCAGCAACGTCAAGCAACGGGAAGATTCTGAAGAAGAGACGGCTGAGTTTCAGTGAGA
CCTTCACTGAAGATGACCTGCAGTCCATAACCCATGATCTGGAAGAGACCATCCAACCCAGATCAGCACC
TTACACCTACCAGAGTGATTTGAGATACAACTGATGAAGCTCGTCAGGCAGAAGTTTGTCATGAATGAT
TCCTCAACCAAACTATATATCAGGATGTGGACAAACACTATCTCAGCACCACCTGGTTAAATGACCTGC
AACAGGAAGTAAAATTTGACATGTATGCCTACTCGTCGGGAGGAGATGACTCTAAATATCCTGTTACTCT
AAAAATCTCAGATTCACAACCTGTTTCGTGAGCGCTCAAGGAGAAGACCAGCCCGTGTGCTGAAGGAGTTG
CCAGAAACACCAAACTCATCACAGGTAGTGAGACCGACCTCATTTTCTTCTGAAAAAGTATCAACTCTA
AGAACTACTTCACATCAGCTGCTTATCCAGAGCTGTTTATTGCCACCAAGAACAAGTCCGGTGACCT
GGCACGGGACTGCCCTCTATGACAGACTTCCAGATATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203602 representing NM_010554
Red=Cloning site Green=Tags(s)

MAKVPDFLFEDLKNCYSENEYSSAIDHLSLNQKSFYDASYGSLHETCTDQFVSLRTSETSKMSNFTFKES
 RVTVSATSSNGKILKKRRLSFSETFTEDDLQSIHDLLEETIQPRSAPTYQSDLRYKLMKLVQRQKFMND
 SLNQTIYQDVKHYLSTTWLNDLQQEVKFDMYAYSSGGDDSKYPVTLKISDSQLFVSAQGEDQPVLKEL
 PETPKLITGSETDLIFFWKSINSKNYFTSAAYPELFIAATKEQSRVHLARGLPSMTDFQIS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_010554

ORF Size: 810 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_010554.4](#), [NP_034684.2](#)

RefSeq Size: 1974 bp

RefSeq ORF: 813 bp

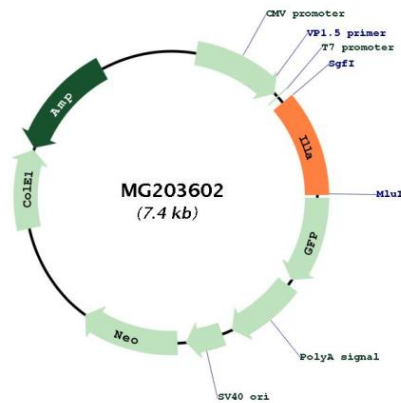
Locus ID: 16175

UniProt ID: [P01582](#)

Cytogenetics: 2 62.9 cM

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 MG203602