

## Product datasheet for **MG226719**

### **IL1b (NM\_008361) Mouse Tagged ORF Clone**

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | IL1b (NM_008361) Mouse Tagged ORF Clone                                     |
| Tag:                      | TurboGFP  |
| Symbol:                   | IL1b  |
| Synonyms:                 | IL-; IL-1b; IL-1beta  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG226719 representing NM_008361<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAACTGTTCTGAACTCAACTGTGAAATGCCACCTTTTGACAGTGATGAGAATGACCTGTTCTTTG  
AAGTTGACGGACCCAAAAGATGAAGGGCTGCTTCAAACCTTTGACCTGGGCTGTCCAGATGAGAGCAT  
CCAGCTTCAAATCTCACAGCAGCACATCAACAAGAGCTTCAGGCAGGCAGTACTACTTGTGGCTGTG  
GAGAAGCTGTGGCAGCTACCTGTGTCTTCCCGTGGACCTTCAGGATGAGGACATGAGCACCTTCTTT  
CCTTCATCTTTGAAGAAGAGCCCATCCTCTGTGACTCATGGGATGATGATAACCTGCTGGTGTGTGA  
CGTTCCATTAGACAGCTGCACTACAGGCTCCGAGATGAACAACAAAAAGCCTCGTGTGTCGGACCCA  
TATGAGCTGAAAGCTCTCCACCTCAATGGACAGAATATCAACCAACAAGTATTTCTCCATGAGCTTTG  
TACAAGGAGAACCAAGCAACGACAAAAATACCTGTGGCCTTGGGCCTCAAAGGAAAGAATCTATACCTGTC  
CTGTGTAATGAAAGACGGCACACCCACCCTGCAGCTGGAGAGTGTGGATCCCAAGCAATACCCAAAGAAG  
AAGATGGAAAAGCGGTTTGTCTTCAACAAGATAGAAGTCAAGAGCAAAGTGGAGTTTGTGCTGCAGAGT  
TCCCAACTGGTACATCAGCACCTCACAAGCAGAGCACAAGCCTGTCTTCTGGGAAACAACAGTGGTCA  
GGACATAATTGACTTCACCATGGAATCTGTGTCTTCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226719 representing NM\_008361  
 Red=Cloning site Green=Tags(s)

MATVPELNCEMPFSDSDNDLFFEVDGPGQMKMGCFQTFDLGCPDESIQLQISQQHINKSFRQAVSLIVAV  
 EKLWQLPVSFPWTFQDEDMSTFFSFI FEEEPILCDSWDDDDNLLVCDVPIRQLHYRLRDEQQKSLVLSDP  
 YELKALHLNGQINQQVIFSMSFVQGEPSNDKIPVALGLKGKNL YLSCVMKDGPTLQLESVDPKQYPKK  
 KMEKRFVFNKIEVKSKVEFESAEPFNWYISTSQAEHKPVFLGNNSGQDIIDFTMESVSS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_008361

**ORF Size:** 807 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\\_008361.2](#)

**RefSeq Size:** 1328 bp

**RefSeq ORF:** 810 bp

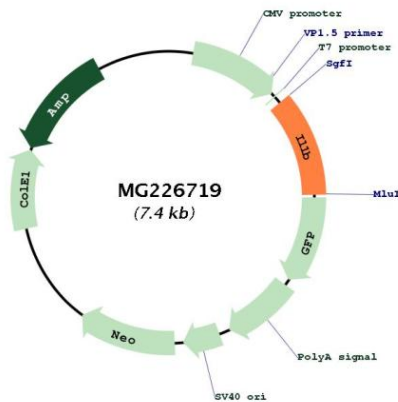
**Locus ID:** 16176

**UniProt ID:** [P10749](#)

**Cytogenetics:** 2 62.97 cM

**Gene Summary:** The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1. The encoded protein plays a role in thymocyte proliferation and is involved in the inflammatory response. [provided by RefSeq, Aug 2015]

**Product images:**



Circular map for MG226719