

## Product datasheet for **MG201920**

### II23a (NM\_031252) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** II23a (NM\_031252) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** II23a  
**Synonyms:** IL-23; p19  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201920 representing NM\_031252  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGGATTGCAGAGCAGTAATAATGCTATGGCTGTTGCCCTGGGTCAGCTCAGGGCCTGGCTGTGCCTA  
 GGAGTAGCAGTCCTGACTGGGCTCAGTGCCAGCAGCTCTCTCGGAATCTCTGCATGCTAGCCTGGAACGC  
 ACATGCACCAGCGGGACATATGAATCTACTAAGAGAAGAAGAGGATGAAGAGACTAAAAAATGTGCC  
 CGTATCCAGTGTGAAGATGGTTGTGACCCACAAGGACTCAAGGACAACAGCCAGTTCTGCTTGCAAAGGA  
 TCCGCCAAGGTCTGGCTTTTTATAAGCACCTGCTTGACTCTGACATCTTCAAAGGGGAGCCTGCTCTACT  
 CCCTGATAGCCCCATGGAGCAACTTCACACCTCCCTACTAGGACTCAGCCAACTCTCCAGCCAGAGGAT  
 CACCCCGGGAGACCCAACAGATGCCAGCCTGAGTTCTAGTCAGCAGTGGCAGCGCCCCCTTCTCCGTT  
 CCAAGATCCTTGAAGCCTCCAGGCCTTTTGGCCATAGCTGCCCGGTCTTTGCCACGGAGCAGCAAC  
 TCTGACTGAGCCCTTAGTGCCAACAGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201920 representing NM\_031252  
 Red=Cloning site Green=Tags(s)

MLDCRAVIMLWLLPWVTQGLAVPRSSSPDWAQCQQLSRNLCMLAWNAHAPAGHMNLLREEEDETKNV  
 RIQCEDGCDPQGLKDNSQFCLQRIRQGLAFYKHLLDSDIFKGEALLPDSPEQLHTSLLGLSQLLPED  
 HPRETQQMPSLSSSQWQRPLLRSLKILRSLQAFLAIAARVFAHGAATLTEPLVPTA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

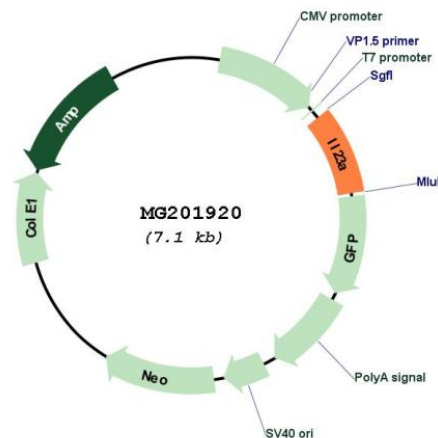


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_031252

ORF Size: 588 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\\_031252.2](#), [NP\\_112542.1](#)

**RefSeq Size:** 1359 bp

**RefSeq ORF:** 591 bp

**Locus ID:** 83430

**UniProt ID:** [Q9EQ14](#)

**Cytogenetics:** 10 D3

**Gene Summary:** Associates with IL12B to form the IL-23 interleukin, a heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak-Stat signaling cascade, stimulates memory rather than naive T-cells and promotes production of proinflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis.[UniProtKB/Swiss-Prot Function]