

Product datasheet for MR201920

IL23a (NM_031252) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL23a (NM_031252) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: IL23a
Synonyms: IL-23; p19
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201920 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGGATTGCAGAGCAGTAATAATGCTATGGCTGTTGCCCTGGGTCAGCTCAGGGCCTGGCTGTGCCTA
 GGAGTAGCAGTCCTGACTGGGCTCAGTGCCAGCAGCTCTCTCGGAATCTCTGCATGCTAGCCTGGAACGC
 ACATGCACCAGCGGGACATATGAATCTACTAAGAGAAGAAGAGGATGAAGAGACTAAAAAATATGTGCC
 CGTATCCAGTGTGAAGATGGTTGTGACCCACAAGGACTCAAGGACAACAGCCAGTTCTGCTTGCAAAGGA
 TCCGCCAAGGTCTGGCTTTTTATAAGCACCTGCTTGACTCTGACATCTTCAAAGGGGAGCCTGCTCTACT
 CCCTGATAGCCCCATGGAGCAACTTCACACCTCCCTACTAGGACTCAGCCAACTCCTCCAGCCAGAGGAT
 CACCCCGGGAGACCCAACAGATGCCAGCCTGAGTTCTAGTCAGCAGTGGCAGCGCCCTTCTCCGTT
 CCAAGATCCTTGAAGCCTCCAGGCCTTTTTGGCCATAGCTGCCGGGTCTTTGCCACGGAGCAGCAAC
 TCTGACTGAGCCCTTAGTGCCAACAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201920 protein sequence
 Red=Cloning site Green=Tags(s)

MLDCRAVIMLWLLPWVTQGLAVPRSSPDWAQCQQLSRNLCMLAWNAHAPAGHMNLLREEEDETENNVP
 RIQCEDGCDPQGLKDNSQFCLQIRQGLAFYKHLLDSDIFKGEPAALLPDSPEQLHTSLGLSLLQPED
 HPRETQQMPSLSSSQWQRPLLRSKILRSLQAFIAAARVFAHGAATLTEPLVPTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031252

ORF Size: 591 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

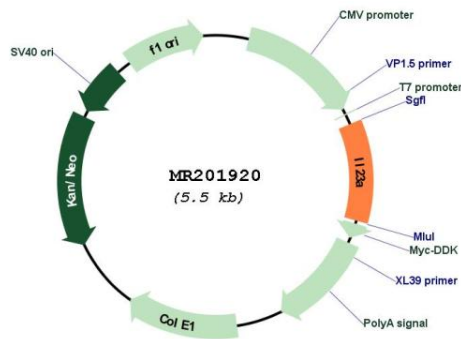
RefSeq ORF: 591 bp

Locus ID: 83430

UniProt ID: [Q9EQ14](#)

Cytogenetics:	10 D3
MW:	22.1 kDa
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]

Product images:



Circular map for MR201920