

Product datasheet for **MG227034**

II10 (NM_010548) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: II10 (NM_010548) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: II10
Synonyms: CSIF; If2a; IL-; II-10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227034 representing NM_010548
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCTGGCTCAGCACTGCTATGCTGCCTGCTCTTACTGACTGGCATGAGGATCAGCAGGGGCCAGTACA
 GCCGGGAAGACAATAACTGCACCCACTTCCCAGTCGGCCAGGCCACATGCTCCTAGAGCTGCGGACTGC
 CTTCAGCCAGGTGAAGACTTTCTTTCAAACAAAGGACCAGCTGGACAACATACTGCTAACCAGCTCCTTA
 ATGCAGGACTTTAAGGGTACTTGGGTTGCCAAGCCTTATCGGAAATGATCCAGTTTTACCTGGTAGAAG
 TGATGCCCCAGGCAGAGAAGCATGGCCAGAAATCAAGGAGCATTGAATCCCTGGGTGAGAAGCTGAA
 GACCCTCAGGATGCGGCTGAGGCCTGTATCGATTTCTCCCCTGTGAAAATAAGAGCAAGCAGTGGAG
 CAGGTGAAGAGTGATTTTAATAAGCTCCAAGCAAGGTGCTACAAGGCCATGAATGAATTTGACATCT
 TCATCAACTGCATAGAAGCATACATGATGATCAAATGAAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227034 representing NM_010548
 Red=Cloning site Green=Tags(s)

MPGSALLCLLLLTGMRI SRGYSREDNNCTHFPVQSHMLLELR TAFS QVKTFFQTKDQLDNILLTDSL
 MQDFKGYLGCQALSEMIQFYLVEVMPQAEKHGPEIKEHLNSLGEKLTLMRLRRCHRFLPCENKSKAVE
 QVKSDFNKLQDQGVYKAMNEFDIFINIEAYMMIKMKS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_010548

ORF Size: 534 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

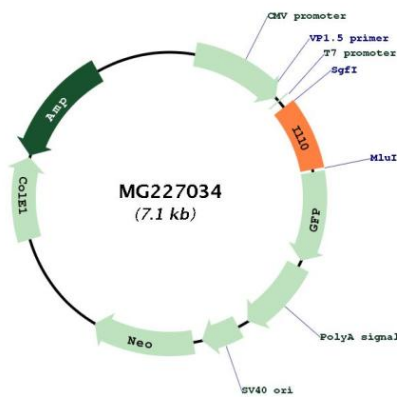
Reconstitution Method:

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_010548.2, NP_034678.1](#)
RefSeq Size: 1306 bp
RefSeq ORF: 537 bp
Locus ID: 16153
UniProt ID: [P18893](#)
Cytogenetics: 1 56.89 cM

Gene Summary: This gene encodes an anti-inflammatory cytokine that is a member of the class-2 cytokine family. The encoded protein is secreted by cells of both the innate and adaptive immune systems and is crucial for limiting the immune response to a broad range of pathogens. It also has been shown to suppress autoimmune responses. This protein mediates its immunosuppressive signal through a specific interleukin 10 receptor complex. Aberrant functioning of this gene is associated with numerous immune disorders including graft-versus-host disease, and increased susceptibility to HIV-1 infection and rheumatoid arthritis. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MG227034