

Product datasheet for MR219466

II11 (NM_008350) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: II11 (NM_008350) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: II11
Synonyms: IL-11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR219466 representing NM_008350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTGTGTTGTGCGCTGGTCTGGTGGTGGTCTGAGCCTCTGGCCAGATAGAGTCGTTGCCCTGGGC
 CACCAGCTGGCTCCCCTCGAGTCTCTTCAGACCCTCGAGCAGATCTGGACAGCGTGTCTCCTAACCCG
 ATCCCTCTGGCAGACACACGGCAACTAGCTGCACAGATGAGAGACAAATCCCAGCTGACGGAGATCAC
 AGTCTGGACTCCCTGCCACCTTGCCATGAGCGCTGGGACATTGGGATCTTTCAGCTTCTGGTGTGC
 TGACAAGGCTTCGAGTAGACTTGTATGTCCTACCTCCGGCATGTACAATGGCTGCGCGTGCAGGTGGTCC
 TTCCCTAAAGACTCTGGAGCCAGAGCTGGGTGCCCTGCAAGCCGACTGGAACGGCTACTCCGCCGTTTA
 CAGCTCTTGATGTCTCGCTGGCCTTGCCCCAGGCAGCCCCAGACCAACCTGTGATCCCCCTGGGCCCTC
 CTGCCTCAGCCTGGGGAAGCATCCGGGCAGCTCATGCCATCCTAGGAGGGCTGCACCTGACCTTGGACTG
 GGCCGTGCGGGCCTGCTGTTGTTAAAGACTCGACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219466 representing NM_008350
 Red=Cloning site Green=Tags(s)

MNCVCRLVVLVSLWPDRVVAPGPPAGSPRVSSDPRADLDSAVLLTRSLADTRQLAAQMRDKFPADGDH
 SLDSLPTLAMSAGTLGSLQLPGVLTSLRVDLMSYLRHVQWLRAGGPPSLKTLEPELGALQARLERLLRRL
 QLLMSRLALPQAAPDQPIPLGPPASAWGSIRAAHAILGGLHLTLDWAVRGLLLKTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mm9006_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008350

ORF Size: 597 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_008350.4](#), [NP_032376.1](#)

RefSeq Size: 1949 bp

RefSeq ORF: 600 bp

Locus ID: 16156

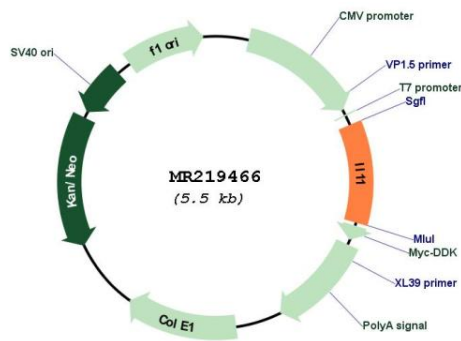
UniProt ID: [P47873](#)

Cytogenetics: 7 2.76 cM

MW: 22 kDa

Gene Summary: Cytokine that stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and induces megakaryocyte maturation resulting in increased platelet production (PubMed:8913282). Also promotes the proliferation of hepatocytes in response to liver damage (PubMed:22253262). Binding to its receptor formed by IL6ST and either IL11RA1 or IL11RA2 activates a signaling cascade that promotes cell proliferation, also in the context of various cancers (PubMed:10026196, PubMed:23948300). Signaling leads to the activation of intracellular protein kinases and the phosphorylation of STAT3 (PubMed:23948300, PubMed:22253262).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219466