

## Product datasheet for **MR228073**

### **II11 (NM\_001290423) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** II11 (NM\_001290423) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** II11  
**Synonyms:** IL-11  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228073 representing NM\_001290423  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGAGAGACAAATCCCAGCTGACGGAGATCACAGTCTGGACTCCCTGCCACCTTGGCCATGAGCGCTG**  
**GGACATTGGGATCTTTCAGCTTCTGGTGTGCTGACAAGGCTTCGAGTAGACTTGATGTCCTACCTCCG**  
**GCATGTACAATGGCTGCGCCGTGCAGGTGGTCCTCCCTAAAGACTCTGGAGCCAGAGCTGGGTGCCCTG**  
**CAAGCCCGACTGGAACGGCTACTCCGCCGTTTACAGCTCTTGATGTCTCGCTGGCCTTGCCCCAGGCAG**  
**CCCCAGACCAACCTGTGATCCCCCTGGGCCCTCCTGCCTCAGCCTGGGGAAGCATCCGGGCAGCTCATGC**  
**CATCCTAGGAGGGCTGCACCTGACCTTGGACTGGGCCGTGCGGGGCTGTGTTGTTAAAGACTCGACTG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228073 representing NM\_001290423  
**Red**=Cloning site **Green**=Tags(s)

MRDKFPADGDHSLDSLPTLAMSAGTLGSLQLPGVLTSLRVDLMSYLRHVQWLRAGGPSLKTLEPEL GAL  
QARLERLLRRLQLLMSRLALPQAAPDQPIPLGPPASAWGSIRAAHAILGGLHLTLDWAVRGLLLLKTRL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

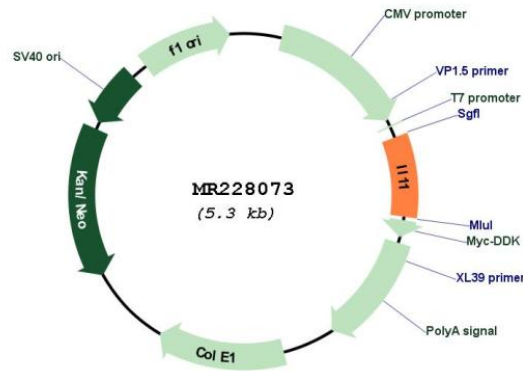


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001290423

ORF Size: 420 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001290423.1</a></u> , <u><a href="#">NP_001277352.1</a></u>
<b>RefSeq Size:</b>	1845 bp
<b>RefSeq ORF:</b>	423 bp
<b>Locus ID:</b>	16156
<b>Cytogenetics:</b>	7 2.76 cM
<b>MW:</b>	15.7 kDa
<b>Gene Summary:</b>	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]