

## Product datasheet for **RR208835**

### **Pmaip1 (NM\_001008385) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pmaip1 (NM\_001008385) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pmaip1  
**Synonyms:** Noxa  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR208835 representing NM\_001008385  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGCCCGGAGAAAGGCGCTCGGAACGCGCCATTGAACCAACGCGGCAGAGTTACCGCCTGAATTCC**  
**CAGCTCAGCTCAGGAAGATTGGAGATAAAGTGTACTGCACGTGGAGTGCACCGGACATAACTGCGGTTCT**  
**GGCGCAGATGCCGGCAAGAAGTCGCGAAAGAGCACGATGAGAAGAAGCCCAAGCCCAACCCGGGTGCCA**  
**GCAAGCTGAAGGACGAGTGTGATCAACTCCGGAGAATTGGAGACAAAGTGAATTTACGGCAGAACTTC**  
**TGAATTTTATTTCCAAGCTCTTCAATTTAATAACC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RR208835 representing NM\_001008385  
**Red=Cloning site Green=Tags(s)**

MPGRKARRNAPLNPTRAE LPPEFAAQLRKIGDKVYCTWSAPDITAVLAQMPGKKS~~SRK~~STMR~~R~~SPSPTRVP  
ADLKDECDQLRRIGDKVNL~~RQ~~LLN~~F~~ISK~~L~~FN~~L~~IT

**TRTRP**LEQK**LISEEDLAANDILDYKDDDDK**V

**Restriction Sites:** Sgfl-MluI

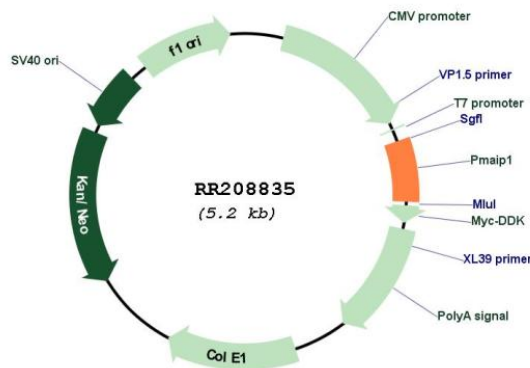


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**Cloning Scheme:**



**Plasmid Map:**



ACCN: NM\_001008385

ORF Size: 315 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_001008385.1</a></u> , <u><a href="#">NP_001008386.1</a></u>
<b>RefSeq Size:</b>	318 bp
<b>RefSeq ORF:</b>	318 bp
<b>Locus ID:</b>	492821
<b>UniProt ID:</b>	<u><a href="#">Q5U777</a></u>
<b>Cytogenetics:</b>	18q12.1
<b>MW:</b>	11.9 kDa
<b>Gene Summary:</b>	Promotes activation of caspases and apoptosis. Promotes mitochondrial membrane changes and efflux of apoptogenic proteins from the mitochondria. Contributes to p53/TP53-dependent apoptosis after radiation exposure. Promotes proteasomal degradation of MCL1. Competes with BAK1 and with BIM/BCL2L11 for binding to MCL1; can displace BAK1 and BIM/BCL2L11 from their binding sites (By similarity).[UniProtKB/Swiss-Prot Function]