

Product datasheet for **MR200341**

Pmaip1 (NM_021451) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pmaip1 (NM_021451) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pmaip1
Synonyms: Noxa
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200341 representing NM_021451
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGAGAAAGGCGCGTCGGAACGCGCCAGTGAACCAACGCGGGCAGAGCTACCACCTGAGTTCC
CAGCTCAACTCAGGAAGATCGGAGACAAAGTGTATTGCACGTGGAGTGCACCGGACATAACTGTGGTTCT
GGCGCAGATGCCGGGAAGTCGAAAAGAGCAGGATGAGGAGCCCAAGCCCAACCCGGGTGCCAGCAGAC
TTGAAGGACGAGTGTCTCAACTCCGGAGATTGGAGACAAAGTGAATTTACGGCAGAACTTCTGAATT
TGATTTCAAGCTCTTCAATTTAGTAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200341 representing NM_021451
Red=Cloning site Green=Tags(s)
MPGRKARRNAPVNPTRALPPEFAAQLRKIGDKVYCTWSAPDITVVLAQMPGKSQKSRMRSPSPTRVPAD
LKDECAQLRRIGDKVNLRQKLLNLIKLFNLVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9108_d06.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_021451

ORF Size: 309 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_021451.2](#), [NP_067426.1](#)

RefSeq Size: 2654 bp

RefSeq ORF: 312 bp

Locus ID: 58801

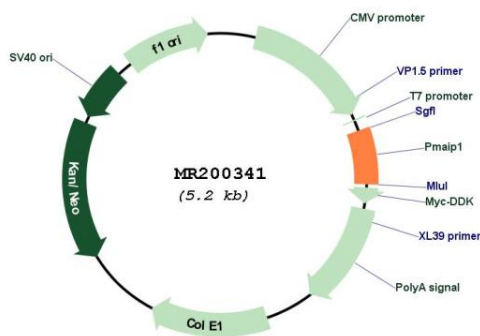
UniProt ID: [Q9JIM54](#)

Cytogenetics: 18 E1

MW: 11.6 kDa

Gene Summary: 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 BIM/BCL2L11 for binding to MCL1 and can displace BIM/BCL2L11 from its binding site on MCL1 (By similarity). Competes with BAK1 for binding to MCL1 and can displace BAK1 from its binding site on MCL1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200341