

Product datasheet for MR225079

Pawr (NM_054056) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pawr (NM_054056) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pawr
Synonyms:	2310001G03Rik; Par-4; PAR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225079 representing NM_054056 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCGCGGCTACCGGAGCGGGCAGCACACCACGGACTTCCTGGAGGAGTGAAGGCGAAGC
GCGAGAAGATGCGCGCCAAGCAGAACCCTCGGGCCCGGGTTCGAGCGCGGGGATCCAGCCGCAAGT
CCCCGCGGATCGCTGACCCGACCGGGTCGCGGAACCTCGGAGCTCAACCACGGCCCCGCGGGCGG
GCCGACCTGCCGCCCGCGCCGCGCCTGAACTGCGCTCACGGCTCGTCCACGCTGCCCGCGCGG
CTCCCGGCTCCCGCGGGCGGAGGACGAGTGCCCTAGCGCGCTGCGGCCTCGGGAGCGCCTGGTCCCG
GGCGATGAGGAGGACCGGATAGCGCCCGGAGAAAGGGCCGAGCTCGGGACCCAGCGCCAGGAAAGGC
AAGGGGAGATCGAGAAGAGGAAGCTGCGGGAGAAAGCGCCGCTCCACCGCGTGGTCAACATCCCGCGG
CGGAGTGCTTAGATGAGTACGAAGATGATGAAGCAGGACAGAAGGAACGGAAGCGAGAGGATGCCATCAC
CCAGCAAAACACCATCCAGAATGAAGCTGCGACCCTCCAGATCCAGGCACATCTACCTGCCCCAGGAC
CCGTCGAGAACAGTTCAGGCAGATACAAAAGCACAACAGTCCCCAGAAGATGAAATCTCAAATAGAT
ATCCCCGAACAGACAGAAGTGGTTTCAGTAGACACAACAGAGATGCAAAATGCGCCGGCTAGTTTCTCCT
AAGTAGCACCTTGAAAAGAGAATTGAAGATCTTGAAGGAAGTTGTAAGAGAAAGGCAAGAAAACCTT
CGACTTGTGAGGCTGATCAAGATAAAGAAGAAATGATTGGGAACTCAAGGAAGAGATCGATTTGTTAA
ATAGAGACCTAGATGACATGGAAGATGAGAACGAGCAACTAAAACAGGAAAATAAACTCTTTTGAAGGT
TGTTGGCAGCTGACAAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225079 representing NM_054056
Red=Cloning site Green=Tags(s)

MATGGYRSGGSTTTDFLEEWKAKREKMRKQNPAGPGSSGGDPAKSPAGSLTPTAVAGTSELNHGPAGA
 AAPAAPAPGALNCAHGSSSTLPRAAPGSRAAEDPCPSAAAAAGAPGSRGDEEPPDSAREKGRSSGPKRG
 KGQIEKRKLREKRRSTGVVNIPTAAECLDEYEDDEAGQKEREKREDAITQQNTIQNEATLPDPGTSYLPQD
 PSRTVPGRYKSTTSAPEDI SNRYPRTDRSGFSRHNRDANAPASFSSSSTLEKRIEDLEKEVVRERQENL
 RLVRMLQDKEEMIGKLKEEIDLLNRDLDDMEDENEQLKQENKTLKVVVQQLTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9032_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_054056

ORF Size: 999 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_054056.2](#), [NP_473397.1](#)

RefSeq Size: 1828 bp

RefSeq ORF: 1002 bp

Locus ID: 114774

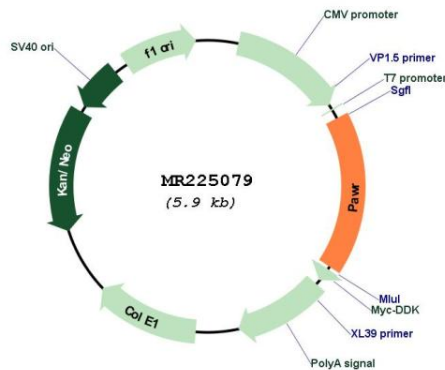
UniProt ID: [Q925B0](#)

Cytogenetics: 10 D1

MW: 36.4 kDa

Gene Summary: Pro-apoptotic protein capable of selectively inducing apoptosis in cancer cells, sensitizing the cells to diverse apoptotic stimuli and causing regression of tumors in animal models. Induces apoptosis in certain cancer cells by activation of the Fas prodeath pathway and coparallel inhibition of NF-kappa-B transcriptional activity. Inhibits the transcriptional activation and augments the transcriptional repression mediated by WT1. Down-regulates the anti-apoptotic protein BCL2 via its interaction with WT1. Seems also to be a transcriptional repressor by itself. May be directly involved in regulating the amyloid precursor protein (APP) cleavage activity of BACE1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225079