

Product datasheet for **RC240141**

DAP Kinase 1 (DAPK1) (NM_001288731) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP Kinase 1 (DAPK1) (NM_001288731) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAPK1
Synonyms:	DAPK; ROCO3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240141 representing NM_001288731 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGACCGTGTTCAGGCAGGAAAACGTGGATGATTACTACGACACCGGCGAGGAAC TTGGCAGTGGACAGT
TTGCGGTTGTGAAGAAATGCCGTGAGAAAAGCACCGCCTCCAGTATGCCGCAAATTCATCAAGAAAAG
GAGGACTAAGTCCAGCCGCGGGGTGTGAGCCGCGAGGACATCGAGCGGAGGTCAGCATCCTGAAGGAG
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CCCTCCTGACAGCCTCTGCCAGGGGCTACCACGACATCGTGGAGTGTCTGGCCGAACATGGAGCCGACCT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC240141 representing NM_001288731
 Red=Cloning site Green=Tags(s)

MTVFRQENVDDYYDTGEELGSGQFAVVKKCREKSTGLQYAAKFIKKRRTKSSRRGVSREDIEREVSILKE
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 LSGASPFLGDTKQETLANVSAVNYEFEDYF SNTSALAKDFIRRLLVKDPKKRMTIQDSLQHPWIKPKLD
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 KTLQSGCFVDYQDRHGNTPLHVACKDGNMPIVVALCEANCLDISNKYGRTPHLAANNGILDVVRVLC
 LMGASVEALT TDGKTAEDLARSEQHEHVAGLLARLRKDTHRGLFIQQLRPTQNLQPRIKLLFGHSGSGK
 TTLVESLKCGLLR SFFRRRRPRLSSTNSRFPSP LASKPTVSVSINNL YPGCENVSRSRSMFEPGLT
 KGMLVVFVAPTHHPHCSADDQSTKAIDIQNA YLNGVGD FSVWEFSGNPVVFCCYDYFAANDPTSIHVVVF
 SLEEPIEQLNQVIFWLSFLKSLVPVEEPIAFGGK LKNPLQVVLVATHADIMNVPRPAGGEFGYDKDTSL
 LKEIRNRFGNDLHISNKL FVLDAGASGSKDMVLRNHLQEIRSQIVSVCPPMTHLCEKIISTLPSWRKLN
 GPNQLMSLQQFVYDVQDQLNPLASEEDLRRIAQQ LHSTGEINIMQSETVQDVLLLDPRWLCTNVLGKLLS
 VETPRALHHRGRYTVEDIQRLVPDSV EELLQILDAMDICARDLSSGTMVDVPAIKTDNLHRSWADEE
 DEVMYGGVRIVPVEHLTPFPCGIFHKVQVNL CRWIHQQSTEGDADIRLWVNGCKLANRGAELLVLLVNH
 GQGIEVQVRGLETEKIKCCLLLDSVCSTIENV MATTPLGLLTVKH YLSPQQLREHHEPVMIYQPRDFRA
 QTLKETS LNTMGGYKESFSSIMCFGCHDVYSQASL GMDIHASDLNLLTRRKL SRLLDPPDPLGKDWCLL
 AMNLGLPDLVAKYNTSNGAPKDFLPSPLHALLREWTTYP ESTVGLTMSKLRRELGRRAADFLLKASSVFK
 INLDGNGQEAYASSCNSGTSYNSISSVVS R

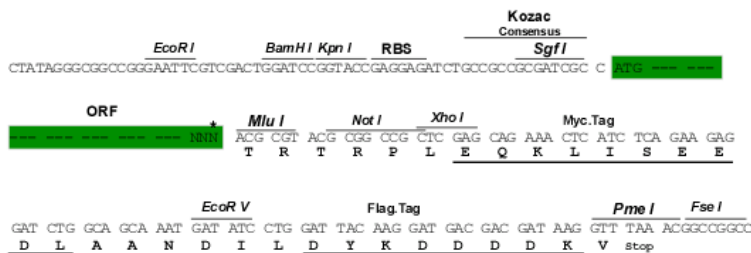
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

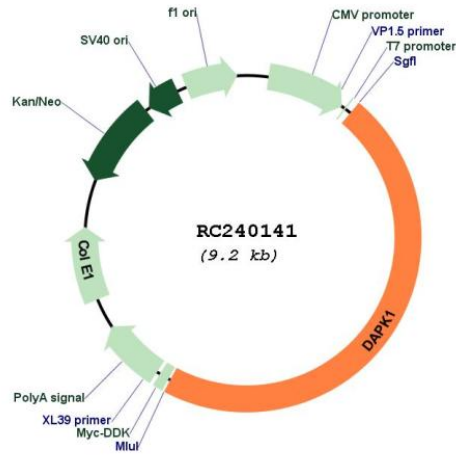
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001288731

ORF Size: 4290 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_001288731.2](#)

RefSeq Size: 5760 bp

RefSeq ORF: 4293 bp

Locus ID: 1612

UniProt ID: [P53355](#)

Cytogenetics: 9q21.33

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Bladder cancer, Pathways in cancer

MW: 160.5 kDa

Gene Summary: Death-associated protein kinase 1 is a positive mediator of gamma-interferon induced programmed cell death. DAPK1 encodes a structurally unique 160-kD calmodulin dependent serine-threonine kinase that carries 8 ankyrin repeats and 2 putative P-loop consensus sites. It is a tumor suppressor candidate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]