

Product datasheet for MR205712

Dapk2 (NM_010019) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dapk2 (NM_010019) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dapk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205712 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCAGGCCTCGATGAGGAGCCAAATATGGAGACGTTCAAACAGCAGAAGGTGGAGGACTTTTATG
ACATCGGAGAGGAGCTGGGCAGTGGCCAGTTTGCCATCGTGAAGAAGTGCCGGGAGAAGAGCACAGGGCT
GGAGTATGCAGCCAAGTTCATTAAGAAGAGGCAGAGCCGGGCCAGCCGTCGGGGCGTGTGCCGGGAGGAA
ATCGAGCCGGGAGGTGAGCATCCTGCGGCAGGTGCTGCACCCCAACATCATCACGCTGCACGACGTCTATG
AGAACCACCGACGTGGTCTCATCCTTGAGCTAGTGTCCGGAGGAGAAGTGTGGATTTCCTGGCCCA
GAAGGAGTCGTTAAGTGAGGAGGAAGCCACCAGCTTCATTAAGCAGATCCTGGATGGGGTGAATTACCTT
CACACAAAGAAAATTGCTCACTTTGATCTCAAGCCAGAAAACATCATGTTGTTAGACAAGAATATCCCCA
TTCCACACATCAAGCTGATTGACTTTGGCCTGGCTCACGAAATAGAAGATGGAGTTGAATTTAAAAACAT
TTTTGGGACACCTGAATTTGTTGCTCCAGAAATCGTGAACATGAGCCACTGGGACTGGAGGCCGACATG
TGGAGCATTGGAGTCATCACCTACATCCTTCTAAGTGGAGCGTCCCCCTCCTGGGAGACACAAAACAAG
AAACCCTGGCAAATATCACTGCTGTGAGTTACGACTTTGATGAGGAATTCCTCAGCCAGACAAGCGAGCT
GGCCAAGGACTTCATTCGGAAGCTTCTGTGAAAGAGACCCGAAACGGCTTACCATCCAAGAGGCTCTC
AGACATCCCTGGATCACGCCGGTGGACACCCAGCAAGCTATGGTACGCAGAGAGTCCGTGGTCAACCTGG
AGAATTTAAGAAGCAGTATGTCCGAGCGGTGGAAGCTGTCTTCAGCATCGTCTCCTGTGCAACCA
CCTCACTCGCTCCCTGATGAAGAAGGTACATCTGAGGACAAGCGAGGACCTGAGGAACTGCGAGAGTGAC
ACAGAGGAGAACATCGCCAGGAGGAAAGCCCTTACCCCCGGAGGAGGAGCAGTACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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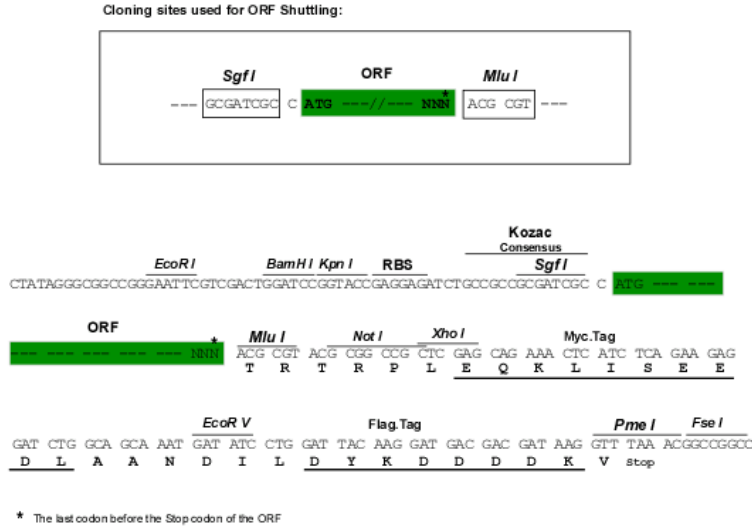
Protein Sequence: >MR205712 protein sequence
 Red=Cloning site Green=Tags(s)

MVQASMRSPNMFTEFKQKVEDFYDIGEELGSGQFAIVKKCREKSTGLELYAAKFIKKRQSRASRRGVCREE
 IEREVSILRQVLHPNIIITLHDVYENRTDVVLELELVSGGELFDFLAQKESLSEEEATSFYIKQILDGVNYL
 HTKKIAHFDLKPENIMLLDKNIPHIKILDFGLAHEIEDGVFEKNIKIFGTPEFVAPEIVNYEPLGLEADM
 WSIQVITYILLSGASPFLGDTKQETLANITAVSYDFDEEFFSQTSELAKDFIRKLLVKETRKRLTIQEAL
 RHPWITPVDTQQAMVRRRESVVNLENFKKQYVRRRWKLSFSIVSLCNHLTRSLMKKVHLRTSEDLRNCESD
 TEENIARRKALHPRRSSTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010019

ORF Size: 1110 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_010019.2](#)

RefSeq Size: 1792 bp

RefSeq ORF: 1113 bp

Locus ID: 13143

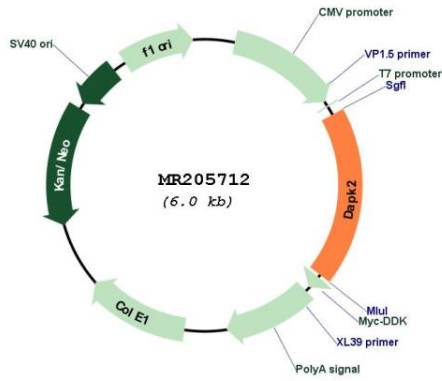
UniProt ID: [Q8VDF3](#)

Cytogenetics: 9 35.75 cM

MW: 42.8 kDa

Gene Summary: Calcium/calmodulin-dependent serine/threonine kinase involved in multiple cellular signaling pathways that trigger cell survival, apoptosis, and autophagy. Capable of regulating both type I apoptotic and type II autophagic cell death signals. The former involves caspase activation, chromatin and mitochondrial condensation while the latter involves caspase-independent cell death in conjunction with accumulation of mature autophagic vesicles, plasma membrane blebs, and nuclear condensation without DNA degradation. Mediator of anoikis and a suppressor of beta-catenin-dependent anchorage-independent growth of malignant epithelial cells. May play a role in granulocytic maturation (By similarity). Regulates granulocytes motility by controlling cell spreading and polarization (PubMed:24163421). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205712