

## Product datasheet for **MC207257**

### Dapk2 (NM\_010019) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dapk2 (NM\_010019) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Dapk2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207257 representing NM\_010019  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGTCCAGGCCTCGATGAGGAGCCAAATATGGAGACGTTCAAACAGCAGAAGGTGGAGGACTTTTATG  
ATATTGGAGGAGCTGGGCAGTGGCCAGTTTGCATCGTGAAGAAGTGCCGGGAGAAGAGCACGGGGCT  
GGAGATGCAGCCAAGTTCATTAAGAAGAGGCAGAGCCGGGCCAGCCGTGGGGCGTGTGCCGGGAGGAA  
ATCGAGCGGGAGGTGAGCATCCTGCGGCAGGTGCTGCACCCCAACATCATCACGCTGCACGACGCTATG  
AGAACCGCACCGACGTGGTGCTCATCCTTGAGCTAGTGTCCGGAGGAGAAGTGTGGATTTCCTGGCCCA  
GAAGGAGTCGTTAAGTGAGGAGGAAGCCACCAGCTTCATTAAGCAGATCCTGGATGGGGTGAATTACCTT  
CACACAAAGAAAATTGCTCACTTTGATCTCAAGCCAGAAAACATCATGTTGTTAGACAAGAATATCCCAA  
TTCCACACATCAAGCTGATTGACTTTGGCCTGGCTCACGAAATAGAAGATGGAGTTGAATTTAAAAACAT  
TTTTGGGACACCTGAATTTGTTGCTCCAGAAATCGTGAAGTATGAGCCACTGGGACTGGAGGCCGACATG  
TGGAGCATTGGAGTCATCACCTATATCCTTCTAAGTGGAGCGTCCCCTTCTGGGAGACACAAAACAAG  
AAACCCTGGCAAATATCACTGCTGTGAGTTACGACTTTGATGAGGAATTCCTCAGCCAGACAAGCGAGCT  
GGCCAAGGACTTCATTCGGAAGCTTCTGTGAAAGAGACCCGAAACGGCTTACCATCCAAGAGGCTCTC  
AGACATCCCTGGATCACGCCGGTGGACACCCAGCAAGCTATGGTACGCAGAGAGTCCGTGGTCAACCTGG  
AGAATTTTAAGAAGCAGTATGTCCGCAGGCGGTGGAAGCTGTCTTCAGCATCGTCTCCTTGTGCAACCA  
CCTCACTCGCTCCCTGATGAAGAAGGTACATCTGAGGACAAGCGAGGACCTGAGGAAGTCCGAGAGTGAC  
ACAGAGGAGAACATCGCCAGGAGGAAAGCCCTTACCCCCGGAGGAGGAGCAGTACCTCC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_010019  
**Insert Size:** 1113 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<a href="#">NM_010019.3</a> , <a href="#">NP_034149.2</a>
<b>RefSeq Size:</b>	1792 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	13143
<b>UniProt ID:</b>	<a href="#">Q8VDF3</a>
<b>Cytogenetics:</b>	9 35.75 cM
<b>Gene Summary:</b>	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]