

Product datasheet for **RG216274**

DAP Kinase 2 (DAPK2) (NM_014326) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP Kinase 2 (DAPK2) (NM_014326) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAP Kinase 2
Synonyms:	DRP-1; DRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216274 representing NM_014326 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCAGGCCTCAATGAGGAGTCCAACATGGAGCCATTCAAGCAGCAGAAGGTGGAGGACTTTTATG
ACATCGGAGAGGAGCTGGGGAGTGGCCAGTTTCCATCGTGAAGAAGTGCCGGGAGAAGAGCACGGGGCT
TGAGTATGCAGCCAAGTTCATCAAGAAGCGGCAGAGCCGGGCGAGCCGGCGGGTGTGAGCCGGGAGGAG
ATCGAGCGGGAGGTGAGCATCCTGCGGCAGGTGCTGCACCACAATGTCATCACGTCGCACGAGCTATG
AGAACCGCACCGAGCTGGTGTCTATCCTTGAGCTAGTGTCTGGAGGAGAGCTCTTCGATTCCTGGCCCA
GAAGGAGTCACTGAGTGAGGAGGAGGCCACCAGCTTCATTAAGCAGATCCTGGATGGGGTGAACCTT
CACACAAAGAAAATTGCTCACTTTGATCTCAAGCCAGAAAACATTATGTTGTTAGACAAGAATATCCCA
TTCCACACATCAAGCTGATTGACTTTGGTCTGGCTCACGAAATAGAAGATGGAGTTGAATTTAAGAATAT
TTTTGGGACGCCGGAATTTGTTGCTCCAGAAATTTGTAACACGAGCCCTGGGTCTGGAGGCTGACATG
TGGAGCATAGGCGTCATCACCTACATCCTTAAAGTGGAGCATCCCTTTCTGGGAGACACGAAGCAGG
AAACACTGGCAAATATCACAGCAGTGAATACGACTTTGATGAGGAATCTTCAGCCAGACGAGCGAGCT
GGCCAAGGACTTTATTCGGAAGCTTCTGGTTAAGAGACCCGAAACGGCTCACAAATCCAAGAGGCTCTC
AGACACCCCTGGATCACGCCGGTGGACAACCAGCAAGCCATGGTCCGAGGGAGTCTGTGGTCAATCTGG
AGAACTTCAGGAAGCAGTATGTCCGAGGCGGTGGAAGCTTTCCTTCAGCATCGTGTCCCTGTGCAACCA
CCTCACCCGCTCGCTGATGAAGAAGGTGCACCTGAGGCCGGATGAGGACCTGAGGAACTGTGAGAGTGAC
ACTGAGGAGGACATCGCCAGGAGGAAAGCCCTCCACCCACGGAGGAGGAGCAGCACCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216274 representing NM_014326
 Red=Cloning site Green=Tags(s)

MFQASMRSPNMEPFKQQKVEDFYDIGEELGSGQFAIVKKCREKSTGLELYAAKFIKKRQSRASRRGVSREE
 IEREVSI LRQVLHNNVITLHDVYENRTDVVLILELVSGGELFDFLAQKESLSEEEATSF IKQILDGVNYL
 HTKKIAHF DLKPENIMLLDKNIP IPHIKLIDFLAHEIEDGVFKNIFGTPEFVAPEIVNYPEPLGLEADM
 WSIGVITYILLSGASPFLGDTKQETLANITAVSYDFDEEFFSQTSELAKDFIRKLLVKETRKRLTIQEAL
 RHPWITPVDNQAMVRRRESVNNLENFRKQYVRRRWKLSFSIVSLCNHLTRSLMKKVHLRPDEDL RNCESD
 TEEDIARRKALHPRRSSTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014326

ORF Size: 1110 bp

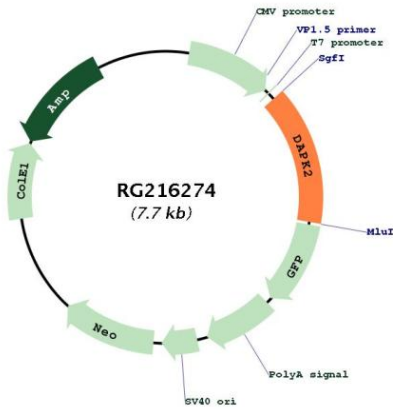
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_014326.5
RefSeq Size:	2628 bp
RefSeq ORF:	1113 bp
Locus ID:	23604
UniProt ID:	Q9UIK4
Cytogenetics:	15q22.31
Domains:	pkinase
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Bladder cancer, Pathways in cancer
Gene Summary:	This gene encodes a protein that belongs to the serine/threonine protein kinase family. This protein contains a N-terminal protein kinase domain followed by a conserved calmodulin-binding domain with significant similarity to that of death-associated protein kinase 1 (DAPK1), a positive regulator of programmed cell death. Overexpression of this gene was shown to induce cell apoptosis. It uses multiple polyadenylation sites. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216274