

Product datasheet for **RG240139**

DAP Kinase 1 (DAPK1) (NM_001288729) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP Kinase 1 (DAPK1) (NM_001288729) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAPK1
Synonyms:	DAPK; ROCO3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240139 representing NM_001288729. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGTGTTACAGGCAGGAAAACGTGGATGATTACTACGACACCGGCGAGGAACCTGGCAGTGGACAG
TTTGCGGTTGTGAAGAAATGCCGTGAGAAAAGCACCGGCCTCCAGTATGCCGCCAAATTCATCAAGAAA
AGGAGGACTAAGTCCAGCCGGCGGGGTGTGAGCCGCGAGGACATCGAGCGGGAGGTGAGCATCCTGAAG
GAGATCCAGCACCCCAATGTCATCACCTGCACGAGGTCTATGAGAACAAGACGGACGTCATCCTGATC
TTGGAACCTCGTTGCAAGTGGCGAGCTGTTGACTTCTTAGCTGAAAAGGAATCTTAACTGAAGAGGAA
GCAACTGAATTTCTCAAACAAATCTTAAATGGTGTACTACCTGCACTCCCTTCAAATCGCCCACTTT
GATCTTAAGCCTGAGAACATAATGCTTTGGATAGAAATGTCCCAAACCTCGGATCAAGATCATTGAC
TTTGGGTTGGCCATAAAATTGACTTTGGAAATGAATTTAAAAACATATTTGGGACTCCAGAGTTTGTG
GCTCCTGAGATAGTCAACTATGAACCTCTTGGTCTTGAGGCAGATATGTGGAGTATCGGGGTAATAACC
TATATCCTCCTAAGTGGGGCCTCCCAATTTCTTGAGACACTAAGCAAGAAACGTTAGCAAAATGTATCC
GCTGTCAACTACGAATTTGAGGATGAATACTTCAGTAATACCAGTGCCCTAGCCAAAGATTTTATAAGA
AGACTTCTGGTCAAGGATCCAAAGAAGAGAATGACAATTAAGATAGTTTGCAGCATCCCTGGATCAAG
CCTAAAGATACACAACAGGCACCTAGTAGAAAAGCATCAGCAGTAAACATGGAGAAATTCAGAAGTTT
GCAGCCGGAAAAAATGGAAACAATCCGTTGCTTGTATGATCACTGTGCCAAAGATTATCCAGGTCATTC
CTGTCCAGAAGTAACATGAGTGTGGCAGAAGCGATGATACTCTGGATGAGGAAGACTCCTTTGTGATG
AAAGCCATCATCCATGCCATCAACGATGACAATGTCCAGGCCTGCAGCACCTTCTGGGCTCATTATCC
AACTATGATGTTAAACCAACCAACAAGCAGGGACACCTCCATTACTCATTGCTGCTGGGTGTTGGGAAT
ATTCAAATACTACAGTTGCTCATTAAGAGAGGCTCGAGAATCGATGTCCAGGATAAGGGCGGGTCCAAT
GCCGCTACTGGGCTGCTCGGCATGGCCACGTCGATACCTTGAAATTTCTCAGTGAGAACAATGCCCT
TTGGATGTGAAAGACAAGTCTGGAGAGATGGCCCTCCAGTGGCAGCTCGCTATGGCCATGCTGACGTG
GCTCAGTTACTGTGACGCTTCGGCTCAAATCCCAATATCCAGGACAAGGAAGAAGAAACCCCTGCAC
TGTGCTGCTTGGCAGGCTATTACTCTGTGGCCAAAGCCCTTTGTGAAGCCGGCTGTAACTGAACATC
```



[View online >](#)

AAGAACCAGAGAAGGAGAGACGCCCTCCTGACAGCCTCTGCCAGGGGCTACCACGACATCGTGGAGTGT
CTGGCCGAACATGGAGCCGACCTTAATGCTTGCACAAGGACGGACACATTGCCCTTCATCTGGCTGTA
AGACGGTGTGAGTGGAGGTAATCAAGACTCTCCTCAGCCAAGGGTGTTCGTCGATTATCAAGACAGG
CACGGCAATACTCCCCTCCATGTGGCATGTAAGATGGCAACATGCCTATCGTGGTGGCCCTCTGTGAA
GCAAATGCAATTTGGACATCTCCAACAAGTATGGGCGAACGCCTCTGCACCTTGCGGCCAACAACGGA
ATCCTAGACGTGGTCCGGTATCTCTGTCTGATGGGAGCCAGCGTTGAGGCGGTGACCACGGACGGAAAG
ACGGCAGAAGATCTTGTAGATCGGAACAGCAGCAGTGCAGGTCTCCTTGCAGACTTCGAAAG
GATACGCACCCGAGGACTCTTATCCAGCAGCTCCGACCCACACAGAACCCTGCAGCCAAGAATTAAGCTC
AAGCTGTTTGGCCACTCGGGATCCGGGAAAACCACCCTTGTAGAATCTCTCAAGTGTGGGCTGTGAGG
AGCTTTTTCAGAAGGCGTCGGCCAGACTGTCTTCCACCAACTCCAGCAGGTTCCACCTTCACCCTG
GCTTCTAAGCCACAGTCTCAGTGGATCAACAACCTGTACCCAGGCTGCGAGAACGTGAGTGTGAGG
AGCCGACAGTATGTTGAGCCGGTCTTACCAAGGGATGCTGGAGGTGTTTGTGGCCCGACCCAC
CACCCGACTGCTCGCCGATGACCAGTCCACCAAGGCCATCGACATCCAGAACGCTTATTTGAATGGA
GTTGGCGATTTACAGCGTGTGGGAGTTCTCTGAAATCCTGTGATTTCTGCTGTTATGACTATTTGCT
GCAAATGATCCCAGTCAATCCATGTTGTCTTTAGTCTAGAAGAGCCCTATGAGATCCAGCTGAAC
CAAGTGATTTTCTGGCTCAGTTTCTGAAGTCCCTTGTCCAGTTGAAGAACCATAGCCTTCGGTGGC
AAGCTGAAGAACCCTCAAGTTGTCTGGTGGCCACCCACGCTGACATCATGAATGTTCTCGACCG
GCTGGAGGCGAGTTTGGATATGACAAAGACACATCGTTGCTGAAAGAGATTAGGAACAGGTTTGGAAAT
GATCTTACATTTCAAATAAGCTGTTTGTCTGGATGCTGGGGCTTCTGGGTCAAAGGACATGAAGTGA
CTTCGAAATCATCTCCAAGAAATACGAAGCCAGATTGTTTCGGTCTGTCTCCATGACTCACCTGTGT
GAGAAAATCATCTCCAGCTGCCTTCTGGAGGAAGCTCAATGGACCAACCAGCTGATGTCGTCGAG
CAGTTTGTGTACGACGTGCAGGACCAGTGAACCCCTGGCCAGCGAGGAGGACCTCAGGCGCATTTGT
CAGCAGCTCCACAGCACAGGCGAGATCAACATCATGCAAAGTGAACAGTTCAGGACGTGCTGCTCTG
GACCCCGCTGGCTCTGCACAAACGTCTGGGGAAGTTGCTGTCCGTGGAGACCCACGGGCGCTGCAC
CACTACCGGGGCGCTACACCGTGGAGGACATCCAGCGCCTGGTCCCGACAGCGACGTGGAGGAGCTG
CTGCAGATCCTCGATGCCATGGACATCTGCGCCCGGGACCTGAGCAGCGGGACCATGGTGGACGTCCCA
GCCCTGATCAAGACAGACAACCTGCACCCTCTGGGCTGATGAGGAGGACGAGGTGATGGTGTATGGT
GGCGTGCATCGTGCCCGTGGAAACCTCACCCCTTCCATGTGGCATCTTTCACAAGGTCCAGGTG
AACCTGTGCCGTGGATCCACCAGCAAAGCACAGAGGGCGACGCGGACATCCGCCTGTGGTGAATGGC
TGCAAGCTGGCCAACCGTGGGCGGAGCTGCTGGTGTGCTGGTCAACCACGGCCAGGGCATTGAGGTG
CAGGTCCGCGCCTGGAGACGGAGAAGATCAAGTGTGCTGCTGCTGGACTCGGTGTGCAGCACCATT
GAGAACGTGATGGCCACCACGCTGCCAGGGCTCCTGACCGTGAAGCATTACCTGAGCCCCAGCAGCTG
CGGGAGCACCATGAGCCCGTATGATCTACCAGCCACGGGACTTCTTCCGGGCACAGACTCTGAAGGAA
ACCTCACTGACCAACACCATGGGGGGTACAAGGAAAGCTTACAGCAGCATCATGTGCTTCGGGTGTGAC
GACGTCTACTCACAGGCCAGCCTCGGCATGGACATCCATGCATCAGACCTGAACCTCCTCACTCGGAGG
AACTGAGTGCCTGTGGACCCGCCGACCCCTGGGGAAGGACTGGTGCCTTCTCGCCATGAACCTTA
GGCCTCCTGACCTCGTGGCAAAGTACAACACCAGTACGGGGCTCCCAAGGATTTCTCCCCAGCCCC
CTCCACGCCCTGCTGCGGGAATGGACCCTACCCTGAGAGCACAGTGGGCACCTCATGTCCAAACTG
AGGGAGCTGGGTGCGCGGATGCCGAGACTTTTTGCTGAAGGCATCCTCTGTGTTCAAATCAACCTG
GATGGCAATGGCAGGAGGCTATGCCTCGAGCTGCAACAGCGCACCTTACAATTCATTAGCTCT
GTTGTATCCCGG

ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAAAC

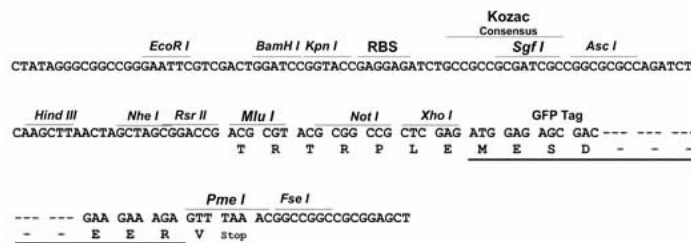
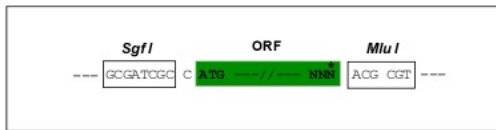
Protein Sequence: >Peptide sequence encoded by RG240139
 Blue=ORF Red=Cloning site Green=Tag(s)

MTVFRQENVDDYDTGEELGSGQFAVVKKCREKSTGLQYAAKFIKKRRTKSSRRGVSREDIEREVSILK
 EIQHPNVITLHEVYENKTDVILILELVAGGELDFLAEKESL TEEATEFLKQILNGVYYLHSLQIAHF
 DLKPENIMLLDRNVPKPRIKIIDFGLAHKIDFGNEFKNIFGTPEFVAPEIVNYEPLGLEADMWSIGVIT
 YILLSGASPF LGDTKQETLANVSAVNYEFEDFYFNSTALAKDFIRRLVKDPKKRMTIQDSLQHPWIK
 PKDTQQALSRKASAVNMEKFKFAARKKWKQSVRLISLQRLSRFLSRSNMSVARSDTLDEEDSFVM
 KATIIHAINDDNVPLQHLLGSLSNYDVNQPNKHGTPPLLIAAGCGNIQILQLLIKRGSRIDVQDKGGSN
 AVYWAARHGHVDTLKFLENKCPDVDKSGEMALHVAARYGHADVAQLLCSFGSNPNIQDKEEETPLH
 CAAWHGYYSVAKALCEAGCNVNIKNREGETPLLTASARGYHDIVECLAEHGADLNACDKDGHIALHLAV
 RRCQMEVIKTLTLLSQGCFVDYQDRHGNTPLHVACKDGNMIPVVALCEANCNDISNKYGRTPHLAANNG
 ILDVVRYLCLMGASVEALTTDGKTAEDLARSEQHEHVAGLLARLRKDTHRGLFIQQLRPTQNLQPRIKL
 KLFHGSGSGKTTLVESLKCGLLRSFRRRRPRLSSTNSSRFPPSPLASKPTVSVSINNL YPGCENVSVR
 SRSMMFEPGLTKGMLV FVAPTHHPHCSADDQSTKAIDIQNA YLNGVGFVWVWVSGNPVYFCYDYFA
 ANDPTS IHVVVFSLEEPIQLNQVIFWLSFLKSLVPVEEPIAFGGKLNPLQVVLVATHADIMNVPRP
 AGGFEFYDKDTSLLKEIRNRF GNDLHISNKL FVLDAGASGSKDMKVLRNHLQEIRSQIVSVCPMTHLC
 EKIIISTLPSWRKLNPNQLMSLQQFVYDVQDQLNPLASEEDLRRIAQQLHSTGEINIMQSETVQDVLLL
 DPRWLCTNVLGKLLSVETPRALHHRGRYTVEDIQRLVPDSDVEELLQILDAMDICARDLSSGTMVDVP
 ALIKTDNLHRSWADEEDEVMYGGVRIVPVEHLTPFPFCGIFHKVQVNLCRWIHQSTEGDADIRLWVNG
 CKLANRGAELLVLLVNHGQIEVQVRGLETEKIKCCLLLD SVCSTIENVMATTLPGLLTVKHYSQPQL
 REHHEPVMIIYQPRDFRAQTLKETSLTNTMGYKESFSSIMCFGCHDVYSQASLGMIDIHSDLNLLTRR
 KLSRLDPPDPLGKDWCLLAMNGLPDLVAKYNTSNGAPKDFLPSPLHALLREWTTYPESTVGTLMASKL
 RELGRRDAADFLKASSVFKINLDGNGQEAYASSCNSGTSYNSISSVVS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGFSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

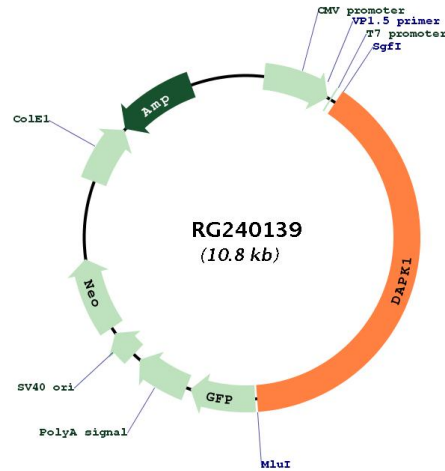
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001288729

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).

RefSeq: [NM_001288729.1](#), [NP_001275658.1](#)

RefSeq Size: 5787 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]