

## Product datasheet for **SC125504**

### DAP Kinase 1 (DAPK1) (NM\_004938) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DAP Kinase 1 (DAPK1) (NM_004938) Human Untagged Clone
Tag:	Tag Free
Symbol:	DAP Kinase 1
Synonyms:	DAPK; ROCO3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_004938 edited  
 ATGACCGTGTTTCAGGCAGGAAAACGTGGATGATTACTACGACACCGGCGAGGAACCTGGC  
 AGTGACAGTTTTGCGGTTGTGAAGAAATGCCGTGAGAAAAGCACCGCCTCCAGTATGCC  
 GCCAAATTCATCAAGAAAAGGAGGACTAAGTCCAGCCGGCGGGGTGTGAGCCGCGAGGAC  
 ATCGAGCGGGAGGTCAGCATCCTGAAGGAGATCCAGCACCCCAATGTCATCACCTGACAC  
 GAGGTCTATGAGAACAAGACGGACGTCATCCTGATCTTGGAACTCGTTGCAGGTGGCGAG  
 CTGTTTGACTTCTTAGCTGAAAAGGAATCTTAACTGAAGAGGAAGCAACTGAATTTCTC  
 AAACAAATTTCTAATGGTGTACTACCTGCACCTCCCTCAAATCGCCCACTTTGATCTT  
 AAGCCTGAGAACATAATGCTTTTGGATAGAAATGTCCCAAACCTCGGATCAAGATCATT  
 GACTTTGGGTTGGCCATAAAAATTGACTTTGAAATGAATTTAAAACATATTTGGGACT  
 CCAGAGTTTGTGCTCCTGAGATAGTCAACTATGAACCTCTTGGTCTTGAGGCAGATATG  
 TGGAGTATCGGGTAATAACCTATATCCTCCTAAGTGGGCGCTCCCAATTTCTTGAGAC  
 ACTAAGCAAGAAACGTTAGCAAATGTATCCGCTGTCAACTACGAATTTGAGGATGAATAC  
 TTCAGTAATACAGTGCCTAGCCAAAGATTTTCATAAGAAGACTTCTGGTCAAGGATCCA  
 AAGAAGAGAAATGACAATCAAGATAGTTTGCAGCATCCCTGGATCAAGCCTAAAGATACA  
 CAACAGGCACTTAGTAGAAAAGCATCAGCAGTAAACATGGAGAAATTCAGAAAGTTTGCA  
 GCCCGGAAAAAATGAAACAATCCGTTTCGCTTGATATCACTGTGCCAAAGATTATCCAGG  
 TCATTCCTGTCCAGAAGTAACATGAGTGTGCCAGAAGCGATGATACTCTGGATGAGGAA  
 GACTCCTTTGTGATGAAAGCCATCATCCATGCCATCAACGATGACAATGTCCCAGGCCTG  
 CAGCACCTTCTGGGCTCATTATCCAACATGATGTTAACCACCAACAAGCACGGGACA  
 CCTCCATTACTCATTGCTGCTGGCTGTGGGAATATTCAAATACTACAGTTGCTCATTAAA  
 AGAGGCTCGAGAATCGATGTCCAGGATAAAGGGCGGTCCTAATGCCGTCTACTGGGCTGCT  
 CGGCATGGCCACGTCGATACCTTGAAATTTCTCAGTGAGAACAAATGCCCTTTGGATGTG  
 AAAGACAAGTCTGGAGAGATGGCCCTCCACGTGGCAGCTCGCTATGGCCATGCTGACGTG  
 GCTCAGTTACTGTGCAGCTTCGGCTCAAATCCCAATATCCAGGACAAGGAAGAAGAAACC  
 CCCCTGCACTGTGCTGCTTGGCACGGCTATTACTCTGTGGCCAAAGCCCTTTGTGAAGCC  
 GGCTGTAACGTGAACATCAAGAACCGAGAAGGAGAGACGCCCTCCTGACAGCCTCTGCC



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AGGGGCTACCACGACATCGTGGAGTGTCTGGCCGAACATGGAGCCGATCTTAATGCTTGC  
 GACAAGGACGGACACATTGCCCTTCATCTGGCTGTAAGACGGTGTGATGGAGGTAATC  
 AAGACTCTCCTCAGCCAAGGGTGTTCCTGCGATTATCAAGACAGGCACGGCAATACTCCC  
 CTCCATGTGGCATGTAAGATGGCAACATGCCTATCGTGGTGGCCCTCTGTGAAGCAAAC  
 TGCAATTTGGACATCTCCAACAAGTATGGGCGAACGCCTCTGCACCTTGGCCCAACAAC  
 GGAATCCTAGACGTGGTCCGGTATCTCTGTCTGATGGGAGCCAGCGTTGAGGCGTGACC  
 ACGGACGGAAAGACGGCAGAAGATCTTGCTAGATCGGAACAGCACGAGCACGTAGCAGGT  
 CTCCTTGC AAGACTTCGAAAGGATACGCACCGAGGACTTTCATCCAGCAGCTCCGACCC  
 ACACAGAACCTGCAGCCAAGAATTAAGCTCAAGCTGTTTGGCCACTCGGGATCCGGGAAA  
 ACCACCCTTGTAGAATCTCTCAAGTGTGGGCTGCTGAGGAGCTTTTTCAGAAGGCGTCGG  
 CCCAGACTGTCTTCCACCAACTCCAGCAGGTTCCACCTTCAACCCTGGCTTCTAAGCCC  
 ACAGTCTCAGTGAGCATCAACAACCTGTACCCAGGCTGCGAGAACGTGAGTGTGAGGAGC  
 CGCAGCATGATGTTGAGCCGGTCTTACCAAAGGGATGCTGGAGGTGTTGTGGCCCCG  
 ACCCACCACCCGCACTGCTCGCCGATGACCAGTCCACCAAGGCCATCGACATCCAGAAC  
 GCTTATTTGAATGGAGTTGGCGATTTTCCAGCGTGTGGGAGTTCTCTGGAATCCTGTGTAT  
 TTCTGCTGTTATGACTATTTTGTGCAAAATGATCCACGTC AATCCATGTTGTTGCTTT  
 AGTCTAGAAGAGCCCTATGAGATCCAGCTGAACCAAGTGATTTTCTGGCTCAGTTTCTCTG  
 AAGTCCCTTGTCCAGTTGAAGAACCATAGCCTTCGGTGGCAAGCTGAAGAACCCTC  
 CAAGTTGTCTGGTGGCCACCCACGCTGACATCATGAATGTTCTCGACCCGGTGGAGGC  
 GAGTTTGGATATGACAAAGACACATCGTTGCTGAAAGAGATTAGGAACAGGTTTGGAAAT  
 GATCTTACATTTCAAATAAGCTGTTTGTCTGGATGCTGGGGCTTCTGGGTCAAAGGAC  
 ATGAAGTACTTCGAAATCATCTGCAAGAAATACGAAGCCAGATTGTTTCCGCTGTCTCCT  
 CCATGACTCACCTGTGTGAGAAAATCATCTCCACGCTGCCTTCTGGAGGAAGTCAAT  
 GGACCCAAACCAGCTGATGTCGCTGCAGCAGTTTGTGTACGACGTG CAGGACCAGCTGAAC  
 CCCTGGCCAGCGAGGAGACCTCAGGCGCATTGCTCAGCAGCTCCACAGCACAGGCGAG  
 ATCAACATCATGCAAAGTAAACAGTTCAGGACGTGCTGCTCCTGGACCCCGCTGGCTC  
 TGCACAAACGTCCTGGGGAAGTTGCTGTCCGTGGAGACCCACGGGCGCTGCACCACTAC  
 CGGGGCCGCTACACCGTGGAGGACATCCAGCGCCTGGTGGCCGACAGCGACGTGGAGGAG  
 CTGCTGCAGATCCTCGATGCCATGGACATCTGCGCCCGGACCTGAGCAGCGGGACCATG  
 GTGGACGTCCCAGCCCTGATCAAGACAGACAACCTGCACCGCTCCTGGGCTGATGAGGAG  
 GACGAGGTGATGGTGTATGGTGGCGTGCATCGTGCCCGTGGAAACCTCACCCCTTC  
 CCATGTGGCATCTTTCACAAGGTCCAGGTGAACCTGTGCCGGTGGATCCACCAGCAAAGC  
 ACAGAGGGCGACGCGGACATCCGCTGTGGGTGAATGGCTGCAAGCTGGCCAACCGTGGG  
 GCCGAGCTGCTGGTGTCTGGTCAACCACGGCCAGGGCATTGAGGTCCAGGTCCGTGGC  
 CTGGAGACGGAGAAGATCAAGTGTGCCTGCTGCTGGACTCGGTGTG CAGCACCATTGAG  
 AACGTCATGGCCACCACGCTGCCAGGGCTCCTGACCGTGAAGCATTACCTGAGCCCCAG  
 CAGCTGCGGGAGCACCATGAGCCCGTCATGATCTACCAGCCACGGGACTTCTCCGGGCA  
 CAGACTCTGAAGGAAACCTCACTGACCAACACCATGGGGGGTACAAGGAAAGCTTCAGC  
 AGCATCATGTGCTTCGGGTGTACGACGTCTACTCACAGGCCAGCCTCGGCATGGACATC  
 CATGCATCAGACCTGAACCTCCTCACTCGAGGAAACTGAGTCGCCTGCTGGACCCGCC  
 GACCCCTGGGGAAGGACTGGTGCTTCTCGCCATGAACTTAGGCCTCCCTGACCTCGTG  
 GC AAAGTACAACACCAATAACGGGGCTCCCAAGGATTTCTCCCCAGCCCCCTCCACGCC  
 CTGCTGCGGGAATGGACCACCTACCCTGAGAGCACAGTGGGCACCCTCATGTCCAAACTG  
 AGGGAGCTGGGTGCGCGGGATGCCGAGACTTTTTGCTGAAGGCATCCTCTGTGTTCAA  
 ATCAACCTGGATGGCAATGGCCAGGAGGCTATGCCTCGAGCTGCAACAGCGGCACCTCT  
 TACAATCCATTAGCTCTGTTGATCCCGGTGA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004938 unedited  
 GGTCAACATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGCGCCGCGC  
 AGAACCCGCAGCGCCGGCCTGGCAGGGCAGCTCGGAGGTGGTGGGCCGCGCCGACGCC  
 CGTTGACAGGGTCCCCATTGGCCGCTGCCGGCCGCCCTCCGCCAAAAGGCGGCAAGGA  
 GCCGAGAGGCTGCTTCGGAGTGTGAGGAGGACAGCCGGACCGAGCCAACGCCGGGACTT  
 TGTTCCCTCCGCGAGGGGACTCGGCAACTCGCAGCGGCAGGGTCTGGGGCCGGCGCCTG  
 GGAGGGATCTGCGCCCCCACTCACTCCCTAGCTGTGTTCCCGCCGCGCCCGGCTAGT  
 CTCCGGCGCTGGCGCTATGGTCGGCCTCCGACACGCGCTCCGGAGGGACCGGGGGAGCTC  
 CCAGGCGCCCGGACTGGAGACTGATGCATGAGGGGGCTACGGAGGCGCAGGAGCGGTGG  
 TGATGGTCTGGGAAGCGGAGCTGAAGTGCCTGGGCTTTGGTGGGCGTGACAGTTTATC  
 ATGACCGTGTTCAGGCAGGAAAACGTGGATGATTACTACGACACCGGCGAGGAATTGGC  
 AGTGGACAGTTTGCGGTTGTGAAGAAATGCCGTGAGAAAAGCACCGGCCTCCAGTATGCC  
 GCCAAATTCATCAAGAAAAGGAGGACTAAGTCCAGCCGGCGNGTGTGAGCCGCGAGGAC  
 ATCGAGCGGGAGGTCAGCATCCTGAAGGAGATCCAGCACCCCAATGTCATCACCTGCNA  
 CGAGTCTATGAGAACAAGACGGACGTCATCCTGATCTTGGAACTGTTGCAGGTGGCGAG  
 CTGTTTGACTTCTTAGCTGAAAGGAATCCTTTACTGAAGAGGAAGCACTGAATTCACAA  
 A

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004938 unedited  
 NNNTTGTCTGGAACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAATG  
 CAACGAGCAACAGTTTATTTATAAAAAAGAAAAACAACAACCTTTTTAACGACATTTT  
 ATAGATTAAGTAAAAATACCAATTAATATATATGTATATACATAGTGCATATATATAT  
 ATACATATGATATAACATTAACATTACATGCTTCTCAGGACAGAAGAATTAGGACATGTT  
 CCCTCCTATCAATTTAAACTCGATCACAATTTAAATCATGGAAGAAAACCTTGCTTCT  
 TTATTTTCTGCTTTTAGACTTCAAGTACAGGAAGTTATGAAACCAGGATCTAAATGTGGA  
 AACCATCTGCTATGCACCAATTATAAGGGACTGCCACAATGATGAGTCAGGGGTCTTCT  
 GAATTTACATAGGTCTCTGTAACCCTACAACCTGTGTCACCTTCTACCTGAGATGAGA  
 GGAATGATGAAGCATGACAGTGTGTAGGTTTCATGTGGACGTTACATTGACATTGGAA  
 CAAAAGCAAACGAAAAATGTCTTCTAGAGCAACAACACTGATCATAAAATCACCTGG  
 AGGAGGATTCCCTTCTCCCTTTCTTCCCAAACAAAACAGAAAACTGTGAGAAAAACA  
 TACAAAACAAAACANGGTGAAAGCACCTCTGGGCGATGATCAGCATACAGCAAGGGGA  
 CAGAGAGGTAGCGGTTCTTTGTGACAGCTCCTGGCTGACTCCCGAGAATTTCAAACACA  
 CCCTCTCTTGAAGAGCACTCAAATAATTGCCTGTTTATAATCATACAGGCGGGATTTCA  
 TACTTGGGGGATTTCTCCTACAAATTAAGAAGAAAGCTGGGAAAAAGGTTACCAAA  
 AAAAGGGGATAAAAATAACACATTTTGGAAAAATGGCCCTTTTTTTTTTTTAAAGGCA  
 AA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004938

**Insert Size:**

6220 bp

**OTI Disclaimer:**

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).

**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).

<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_004938.1</a> , <a href="#">NP_004929.1</a>
<b>RefSeq Size:</b>	5910 bp
<b>RefSeq ORF:</b>	4296 bp
<b>Locus ID:</b>	1612
<b>UniProt ID:</b>	<a href="#">P53355</a>
<b>Cytogenetics:</b>	9q21.33
<b>Domains:</b>	DEATH, pkinase, TyrKc, ANK, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Bladder cancer, Pathways in cancer
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3 and 4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>