

## Product datasheet for **SC338034**

### DAP Kinase 1 (DAPK1) (NM\_001288730) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DAP Kinase 1 (DAPK1) (NM_001288730) Human Untagged Clone
Tag:	Tag Free
Symbol:	DAPK1
Synonyms:	DAPK; ROCO3
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001288730, the custom clone sequence may differ by one or more nucleotides

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ATGACCGTGTTCCAGGCAGGAAAACGTGGATGATTACTACGACACCCGGCGAGGAAC TTGGCAGTGGACAGT
TTGCGGTTGTGAAGAAATGCCGTGAGAAAAGCACCGGCCCTCCAGTATGCCGCCAAATTCATCAAGAAAAG
GAGGACTAAGTCCAGCCGGGGTGTGAGCCGCGAGGACATCGAGCGGGAGGTGAGTATCCTGAAGGAG
ATCCAGCACCCCAATGTCATCACCTGCACGAGGTCTATGAGAACAAGACGGACGTATCCTGATCTTGG
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TGAATTTCTCAAACAAATCTTAATGGTGTACTACCTGCACTCCCTTCAAATCGCCCACTTTGATCTT
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TGGCCATAAAATTGACTTTGGAATGAATTTAAAAACATATTTGGGACTCCAGAGTTTGTGCGTCTCTGA
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CTAAGTGGGGCCTCCCAATTTCTGGAGACACTAAGCAAGAAACGTTAGCAAATGTATCCGCTGTCAACT
ACGAATTTGAGGATGAATACTTCAGTAATACCAGTGCCCTAGCCAAAGATTTTATAAGAAGACTTCTGGT
CAAGGATCCAAAGAAGAGAATGACAATCAAGATAGTTTGCAGCATCCCTGGATCAAGCCTAAAGATACA
CAACAGGCACTTAGTAGAAAAGCATCAGCAGTAAACATGGAGAAATCAAGAAGTTTGCAGCCCGGAAAA
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CATGTAAGATGGCAACATGCCTATCGTGGTGGCCCTCTGTGAAGCAAATGCAATTTGGACATCTCCAA
CAAGTATGGGCGAACGCCTCTGCACCTTGGCCCAACAACGGAATCCTAGACGTGGTCCGGTATCTCTGT
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CTGATGGGAGCCAGCGTTGAGGCGCTGACCACGGACGGAAGACGGCAGAAGATCTTGCTAGATCGGAAC
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TCCCCAGCCCCCTCCACGCCCTGCTGCGGGAATGGACCACCTACCCTGAGAGCACAGTGGGCACCCAT
GTCCAAACTGAGGGAGCTGGGTGCGCGGATGCCGAGACTTTTTGCTGAAGGCATCCTCTGTGTTCAAA
ATCAACCTGGATGGCAATGGCCAGGAGGCTATGCCTCGAGCTGCAACAGCGGCACCTCTTACAATTCCA
TTAGCTCTGTTGTATCCCGGTGA
    
```

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001288730

**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).

**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.

**RefSeq:** [NM\\_001288730.1](#), [NP\\_001275659.1](#)

**RefSeq Size:** 5777 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

**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]  
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same protein.