

## DOK4 cDNA

Catalog Number: ATGD0155

### PRODUCT INFORMATION

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**Catalog number**

ATGD0155

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_060580.2

**Alternative Names**

IRS-5, IRS5

**mRNA Refseq**

NM\_018110.3

**OMIM**

608333

**Chromosome location**

16q21

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

981bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

**DOK4 cDNA**

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DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK4 functions in RET-mediated neurite outgrowth and plays a positive role in activation of the MAP kinase pathway (By similarity). Putative link with downstream effectors of RET in neuronal differentiation. May be involved in the regulation of the immune response induced by T-cells.

**DATA****Sequence nucleotides**

```
ATGGCGACCAATTTTCAGTGACATCGTCAAGCAAGGCTACGTGAAGATGAAGAGCAGGAAGCTCGGGATCTACCGGAGGTG
CTGGCTGGTGTTCGGAAATCCTCCAGCAAGGGGCCCCAGCGGCTGGAGAAGTATCCAGATGAGAAGTCGGTGTGCCTCC
GGGGCTGCCCCAAGGTGACTGAGATCAGCAACGTCAAGTGTGTTACGCGGCTCCCCAAGGAGACCAAGCGGCAGGCGGT
GGCCATCATATTTCACTGATGACTCGGCACGTACCTTACCTGCGACTCAGAGCTAGAGGCAGAGGAGTGGTACAAGACT
ATCTGTGGAGTGTCTGGGGTCCCGCCTCAACGACATCAGTCTGGGAGAACCTGACCTCCTGGCCCCAGGGGTGCAGTGTG
AACAGACAGATCGCTTCAATGTCTTCTGCTGCCCTGCCCAACCTGGACGTGTATGGCGAGTGCAAGCTGCAGATCACCC
ACGAGAACATCTACCTCTGGGACATCCACAACCCCCGTGTGAAGCTCGTCTCGTGGCCCCCTCTGCTCACTGCGCCGCTATG
GCCGGATGCCACACGCTTTACCTTCGAGGCTGGCCGGATGTGTGATGCTGGGGAAGGACTCTATACCTTCCAGACACAAG
AGGGGGAGCAGATTTACCAGCGCGTCCACAGTGCCACCCTGGCCATCGCAGAGCAGCACAAAGCGGGTCTGCTGGAAATG
GAGAAGAACGTGAGGCTGCTGAACAAGGGCACGGAACATTACTCGTATCCCTGCACACCCACGACCATGCTGCCGCGCAG
TGCCTACTGGCACCACATCACTGGTTCCCAGAACATCGCCGAAGCCTCCAGCTATGCTGGTGAGGGGTATGGGGCAGCCCA
GGCCAGCTCGGAAACAGACCTCCTCAACAGATTCATCCTGCTAAAGCCAAAGCCCAGCCAGGGGGACAGCAGTGAGGCCA
AGACCCCATCCCAGTGA
```

**Transaction Sequence**

```
MATNFSDIVK QGYVKMKSrk LGIYRRCWLv FRKSSSKGPQ RLEKYPDEKS VCLRGCPKVTEISNVKCVTR LPKETKRQAV
AIIFTDDSAR TFTCDSELEA EEWYKTLsVE CLGSRlNDISLGEPDLLAPG VQCEQTDRFN VFLLPCPNLD VYGECKLQIT
HENIYLWDIH NPRVKLVSWPLCSLRRYGRD ATRFTFEAGR MCDAGEGLYT FQTQEGEQIY QRVHSATLAI
AEQHKRVLLEMEKNVRLLNK GTEHYSYPCT PTTMLPRsAY WHHITGSQNI AEASSYAGEG YGAAQASSETDLLNRFILLK
PKPSQGSSE AKTPSQ
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