

Product datasheet for **MR206494**

Dok2 (NM_010071) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dok2 (NM_010071) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dok2
Synonyms:	dok-R; DokR; Frip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206494 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCAGGATGGAGGAGCCAGCTGTGAAGCAGGGCTTCTGCATCTTCAGCAGCAGCAGACCTTTGGCA
AGAAGTGGCGCGTTTCGCAGCCGTGTTATATGGAGAGTCTGGCTGTGCCCTAGCCAGACTAGAGCTCCA
GGATGTCCCCGAGAAGACACGGCGAGGAGAGGCCACTCGGAAGGTTGTCCGCCTCAGTGACTGCTTACGG
GTAGCAGAGGTAGGCAGTGAGGCCAGCAGCCCCGGGACACCAGTGCCTTCATCTGGAGACCAAGGAGC
GCCTGTACCTACTGGCAGCCCCCTCGGCAGAGCGCAGTACTGGATACAGGCCATCTGCCTGTTGGCTTT
CCCGGGACAGAGGAAAGGTCGCCAGGACTGGAGGAAAAGAGCGGCACTCCCTGCATGGAGGAGAACGAG
TTGTATAGCAGCTCCACCACAGGGCTCTGCAAGGAATATATGGTGACCATACGACCCACAGAAGCCAGTG
AGCGCTGCCGGCTCCGAGGGTCTATACTCTCCGGACCGGGGTGAGTGCCTGGAGCTGTGGGGTGGCC
TGAGCCAGGCACACAGCTATAGACTGGCCCTACAGGTTTCTTCGACGCTTTGGGCGTGACAAGGCAACT
TTTTCTTTGAGGCTGGCAGACGCTGTCTCTGGAGAGGGCAACTTTGAGTTCGAAACACGACACGGCA
ATGAGATCTTCCAAGCCTTAGAAAAGGTCATTACTGTCCAGAAGAATGCCACCCCTCCGGGCTCCATC
CCTGCCAGCCACAGGGCCCATGATGCCACTGTGCTGCCTCGACTGAAAGCCCCATTCCCGGCCCCAC
GACTCTCTGCCCTTCTCCATCCCCTGGCACACTGGTGCCTGGCATGAGGCCAGGGCCCTGAGGGGGAGT
ATGCCGTACCCTTTGATACGGTGGCTCACTCCCTGAGGAAGAGCTTCAGGGCCTCCTGACGGGCCCC
TCCACACCTTCCCGACCCACTGTATGACAGCATTGAGGAGGATCCTGGGGCCCTCTACCTGACCACATA
TATGATGAACCTGAGGGTGTGGCTGCCCTGTCCCTCTATGACAGGACACAGAGGCCCTCAGGGGAGACAT
GGAGGGAGCAGGCCACTGCCGATGGGGTCCCAGCTCCCTCCAGCAAGACTCCTCTGTGCCTGACTGGCC
ACAGGCAACTGAGTATGACAATGCATACTTAAAAAGGCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206494 protein sequence
 Red=Cloning site Green=Tags(s)

MVRMEEPAVKQGFLHLQQQTFGKKWRRFAAVLYGESGCALARLELQDVPEKTRRGEATRKVVRLSDCLR
 VAEVGSEASSPRDTSAF ILETKERLYLLAAPSAERSDWIQAICLLAFPGQRKSGPLEEKSGSPCMEENE
 LYSSSTTGLCKEYMYVTIRPTEASERCRLRGSYTLRTGVSALWGGPEPGTQLYDWPYRFLRRFGRDKAT
 FSFEAGRRCLSGEGNFEFETRHGNEIFQALEKVI TVQKNATPSGPPSLPATGPMMPVLRPEPSYSRPH
 DSLPSPSPGTLVPGMRPGAPEGEYAVPFDVAHSLRKSFRGLLTGPPPHLPDPLYDSIQEDPGAPLPDHI
 YDEPEGVAALSLYDRTRQPSGETWREQATADGGPSSLQQDSSVPDWPQATEYDNLVILKKGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010071

ORF Size: 1236 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).

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_010071.1](#), [NM_010071.2](#), [NP_034201.1](#)

RefSeq Size: 1717 bp

RefSeq ORF: 1239 bp

Locus ID: 13449

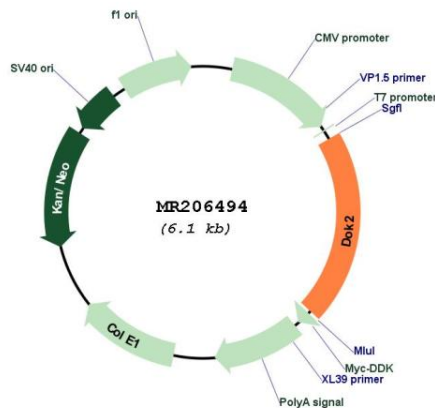
UniProt ID: [O70469](#)

Cytogenetics: 14 36.71 cM

MW: 45.4 kDa

Gene Summary: DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK2 may modulate the cellular proliferation induced by IL-4, as well as IL-2 and IL-3. May be involved in modulating Bcr-Abl signaling. Attenuates EGF-stimulated MAP kinase activation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206494