

Product datasheet for **MR204738**

Dok4 (NM_053246) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dok4 (NM_053246) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dok4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204738 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCAATTTCAACGACATCGTCAAGCAAGGCTATGTGAAGATGAAGAGCAGGAAGCTCGGGATTT
ACCGGAGGTGCTGGCTGGTGTCCGAAATCTCCAGCAAGGGGCCAGCGGCTGGAGAAGTATCCTGA
TGAGAAGTCCGTGTGCCTCCGAGGCTGCCCAAGGTGACTGAGATTAGCAACGTCAAGTGTGCACACGG
CTCCCAAGGAGACCAAGAGGCAGGCGGTGGCCATCATATTCACAGACGACTCCGCTCGCACCTTCACTT
GTGACTCAGAGCTGGAGGCAGAAGAGTGGTACAAGACACTGTCCGTGGAATGTCTGGGATCAGGCTCAA
TGACATCAGCCTGGGAGAGCCTGACCTCCTGGCTCCAGGAGTACAGTGTGAGCAGACAGATCGCTTCAAC
GTCTTCTGTACCCTGCCCAACCTGGACGTGTATGGGGAGTGCAAGCTGCAGATCACTCACGAGAACA
TCTACCTCTGGACATACACAACCCCGCGTGAAGCTCGTCTCGTGGCCCTCTGCTCTTTGCGCCGTTA
TGGCCGAGATGCTACGCGCTTTACCTTTGAGGCGGCAGGATGTGTGACGCTGGGAAAGGCTCTATACC
TTTCAGACACAGGAGGGGAGCAGATTTACCAGCGGTTACAGTGCCACCCTGGCCATCGCCGAGCAGC
ACAAGCGGTCTGCTGGAGATGGAGAAGAATGTGAGGCTGCTGAACAAGGCACCGAGCACTACTCCTA
TCCCTGCACACCCACGGCATGTGCCCGCAGCGCTACTGGCACCATATCACAGGTTCTCAGAACATT
GCTGAAGCCTCCAGCTATGGGAAAGTTATGGGGCAGCCAGGCCAGCTCGGAAACAGACCTCTGAACA
GGTTCATCTTGCTTAAGCCAAAGCCAGTCAGGAGGATAGCAGTGAGGCCAAGACCCCTGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204738 protein sequence
 Red=Cloning site Green=Tags(s)

MATNFNDIVKQGYVKMSRKLGIYRRCWLVFRKSSSKGPQRLEKYPDEKSVCLRGCPKVTEISNVKCVTR
 LPKETKRQAVAIIFTDDSDARTFTCDSELEAEWYKTL SVECLGSR LNDISLGE PDLLAPGVQCEQTDRFN
 VFLLPCPNLDVYGECKLQITHENIYLWDIHNPRVKLVSWPLCSLRRYGRDATRFTFEAGRMCDAGEGLYT
 FQTQEGEQIYQRVHSATLAI AEQHKRVLLEMEKNVRLLNKGTEHYSYPCPTPTAMLPR SAYWHHITGSQNI
 AEASSYGESYGA AQASSETDLLNRFILLKPKPSQEDSSEAKTPAQ

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_053246

ORF Size: 978 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_053246.3](#)

RefSeq Size: 2604 bp

RefSeq ORF: 978 bp

Locus ID: 114255

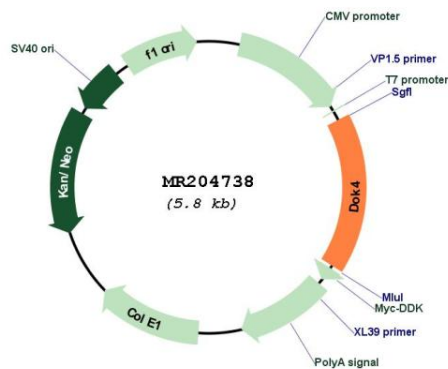
UniProt ID: [Q99KE3](#)

Cytogenetics: 8 C5

MW: 37 kDa

Gene Summary: 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 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204738