

## Product datasheet for **MR207720**

### **Dok1 (NM\_010070) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dok1 (NM_010070) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dok1
Synonyms:	AW557123; p62DOK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207720 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACGGGGCTGTGATGGAGGGTCCGCTTTTTCTGCAGAGTCAGCGCTTCGGGACCAAGAGGTGGAGGA  
 AAACCTGGGCTGTGCTTTACCCAGCCAGTCTCACGGCGTGGCGGGCTGGAATCTTTGATCACAAAGG  
 GTCGAGCTCTAGAGGGGTCGAGGCGGCTCTCGCCGTCTAGACTGCAAGATGATACGCTGGCTGAATGT  
 GTGAGCGTGGTCCGGTACTGTGGAGAGTCCCCCTGAGCCCGCGCTGTGCCTCCGCTGGACACCG  
 CACAGCGCTCGCACCTGCTGGCGCGGACGCCGTATCCAGCACCGCTGGGTGCAGACTTTATGCAGAAC  
 CGCCTTTCCGAAAGGCGGCTGGGCTTTGGCGCAGACGGAGAACCAACCTAAGTTTTCTGCCTTGAGATG  
 CTGGAGAATTCGCTGTACAGCCCCACCTGGGAAGGATCCCAGTTCTGGTAACTCGCAGAAGACCGAGG  
 CTTCTGAACGCTCGGCTTGAAGGCTCTACATACTAGGGTGAAGCTGAGAAGCTGACTCTCCTGAC  
 TTTGGGTGCGCAGAGTCAAATCCTGGAGCCGCTCTTTCTGGCCCTACACTCTGTTGCGTGCATGAC  
 CCGGACAAGTAATGTTCTCCTTTGAAGCTGGTGCCTGCCCCCTAGGCCCTGGGACCTTCACCTTCC  
 AGACTTCTCAGGAAATGACATCTTTCAGGCAGTTGAGGCTGCCATCCAGCAGCAGAAAGCCCAAGGAAA  
 GGTGGGCCAGGCACAGGATATCCTCAGAACTGACTCCCATGACGGGGAGACAGAGGGGAAGACAGTTCCC  
 CCTCCTGTTCCCCAGGACCCCTGGGCAGCCCTCCAGCCCTATATGCGGAGCCTTTAGACTCCTTGCGAA  
 TTCCTCCAGGCCCTTCTCAGGACTCTGTATTTAGACCCCTGGGCAGCACCCCTGCTGGGGCAGGGGA  
 AGGGGTGCATTCAGAAACCTCTACTGGGATTTGTATGGGCATGTGCAGCAGCAGTTACTGAAAACC  
 AAGCTGACAGACTCCAAGAGGACCCATCTATGATGAACCTGAAGGCTGGCCCCGCCCTCCCCGGG  
 GCCTTTATGATCGCTCAGGAGCTCGGGATGCATGGTGGTCCAGGCTCGGCTGAAGGAAGAGGCTCA  
 TGAGCTCCCTTACAACCCCTGCCACCGATGACTATGCTGTGCCACCTCCCCGGAGCCCAAAGCCTGCCT  
 GCCCCAAAGCCACAGGGCTTATCCTTCCGAATCGGGTACCCTCGTGGCAGTGGCAGCAAAGGCTTCA  
 GCTCAGATACAGCTCTGTACAGCCAGGTCAGAAAAGTGGGACCTCAGGGGCTTGGGACTGTGGACTCTC  
 TAAAGTAGGGAATGACAGGGCGGGGTCAAGTCTGAGGGTTCCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207720 protein sequence  
 Red=Cloning site Green=Tags(s)

MNGAVMEGPLFLQSRFGTKRWRKTWAVLYPASPFGVARLEFFDHKGSSSRGGRGSRRLDCKMIRLAEC  
 VSVPVTVESPPPEGAAAFRLDTAQRSHLLAADAVSSTAWVQTLCRTAFPKGGWALAQTENQPKFSALEM  
 LENSLYSPTWEGSQFWVTSQKTEASERCLQGSYILRVEAEKLTLLTLGAQSQIILEPLLFWPYTLRRYR  
 RDKVMFSFEAGRRCPSGPTFTFQTSQGNDFQAVEAAIQQKAQKVGQAQDILRTDSDHGETEGKTVP  
 PPVPQDPLGSPALYAEPDLSLRIPPGPSQDSVYSDPLGSTPAGAGEGVHKKPL YWDL YGHVQQQLLKT  
 KLTDKEDPIYDEPEGLAPAPRGLYDLPQEPDWWCQARLKEEGYELPYNPATDDYAVPPRSPKAP  
 APKQGLILPESGTTTRSGSKGFSSTALYSQVQKSGTSGAWDCGLSKVGNDRAGVKSEGST

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010070

**ORF Size:** 1449 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\\_010070.3](#), [NP\\_034200.3](#)
**RefSeq Size:** 1821 bp

**RefSeq ORF:** 1449 bp

**Locus ID:** 13448

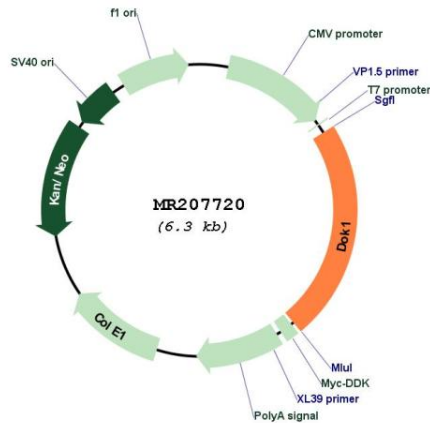
**UniProt ID:** [P97465](#)

**Cytogenetics:** 6 35.94 cM

**MW:** 52.4 kDa

**Gene Summary:** DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK1 appears to be a negative regulator of the insulin signaling pathway. Modulates integrin activation by competing with talin for the same binding site on ITGB3 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207720