

Product datasheet for **MG207720**

Dok1 (NM_010070) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dok1 (NM_010070) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dok1
Synonyms:	AW557123; p62DOK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207720 representing NM_010070
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACGGGGCTGTGATGGAGGGTCCGCTTTTTCTGCAGAGTCAGCGCTTCGGGACCAAGAGGTGGAGGA
 AAACCTGGGCTGTGCTTTACCCAGCCAGTCTCACGGCGTGGCGGGCTGGAATTTTGTATCACAAAGG
 GTCGAGCTCTAGAGGGGTCGAGCGGGCTCTCGCCGTCTAGACTGCAAGATGATACGCTGGCTGAATGT
 GTGAGCGTGGTCCGGTACTGTGGAGAGTCCCCCTGAGCCCGCGCTGTGCCTCCGCTGGACACCG
 CACAGCGCTCGCACCTGCTGGCGCGGACGCCGTATCCAGCACCGCTGGGTGCAGACTTTATGCAGAAC
 CGCCTTTCCGAAAGGCGGCTGGGCTTTGGCGCAGACGGAGAACCAACCTAAGTTTTCTGCCTGGAGATG
 CTGGAGAATTCGCTGTACAGCCCCACCTGGGAAGGATCCCAGTTCTGGTAACCTCGAGAAGACCGAGG
 CTTCTGAACGCTCGGCTTGAAGGCTCTACATACTGAGGGTGAAGCTGAGAAGCTGACTCTCCTGAC
 TTTGGGTGCGCAGAGTCAAATCCTGGAGCCGCTCTTTTTCTGGCCCTACACTCTGTTGCGTGCATGGC
 CGGGACAAGTAATGTTCTCCTTTGAAGCTGGTGCCTGCCCCCTCAGGCCCTGGGACCTTCACCTTCC
 AGACTTCTCAGGAAATGACATCTTTCAGGCAGTTGAGGCTGCCATCCAGCAGCAGAAAGCCCAAGGAAA
 GGTGGGCCAGGCACAGGATATCCTCAGAACTGACTCCCATGACGGGGAGACAGAGGGGAAGACAGTTCCC
 CCTCCTGTTCCCCAGGACCCCTGGGCAGCCCTCCAGCCCTATATGCGGAGCCTTTAGACTCCTTGCAGAA
 TTCCTCCAGGCCCTTCTCAGGACTCTGTATATTCAGACCCCTGGGCAGCACCCCTGCTGGGGCAGGGGA
 AGGGGTGCATTCAGAAACCTCTACTGGGATTTGTATGGGCATGTGCAGCAGCAGTTACTGAAAACC
 AAGCTGACAGACTCCAAGAGGACCCATCTATGATGAACCTGAAGGCCCTGGCCCCGCCCTCCCCGGG
 GCCTTTATGATCGCTCAGGAGCTCGGGATGCATGGTGGTCCAGGCTCGGCTGAAGGAAGAGGGCTA
 TGAGTCCCTTACAACCCTGCCACCGATGACTATGCTGTGCCACCTCCCCGGAGCCCAAAGCCTGCCTCT
 GCCCCAAAGCCACAGGGCTTATCCTTCCGAATCGGGTACCCTCGTGGCAGTGGCAGCAAAGGCTTCA
 GCTCAGATACAGCTCTGTACAGCCAGGTCCAGAAAAGTGGGACCTCAGGGGCTTGGGACTGTGGACTCTC
 TAAAGTAGGGAATGACAGGGCGGGGTCAAGTCTGAGGGTTCCACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207720 representing NM_010070
 Red=Cloning site Green=Tags(s)

MNGAVMEGPLFLQSQRFGTKRWRKTWAVLYPASPVGVARLEFFDHKGSSSRGGRRGSRRLDCKMIRLAEC
 VSVVPVTVESPPPEGAAAFRLDTAQRSHLLAADAVSSTAWVQTLCRTAFPKGGWALAQTENQPKFSALEM
 LENSLSPTWEGSQFWVTSQKTEASERCGLQGSYILRVEAEKLTLLTLGAQSQIILEPLLFWPYTLRRYG
 RDKVMFSEAGRRCPSPGTFTFQTSQGNDFQAVEAAIQQKAQKVGQAQDILRTDSDHGETEGKTVP
 PPVPQDPLGSPPALYAEPLDSLRIPPGPSQDSVYSDPLGSTPAGAGEGVHKKPL YWDL YGHVQQQLLKT
 KLTD SKEDPIYDEPEGLAPAPPRGLYDLPQEPDWWCQARLKEEGYELPYNPATDDYAVPPRSPKPAP
 APKPQGLILPESGTTTRGSGSKGFSSTALYSQVQKSGTSGAWDCGLSKVGNDRAGVKSEGST

TRTRPLE – GFP Tag – V

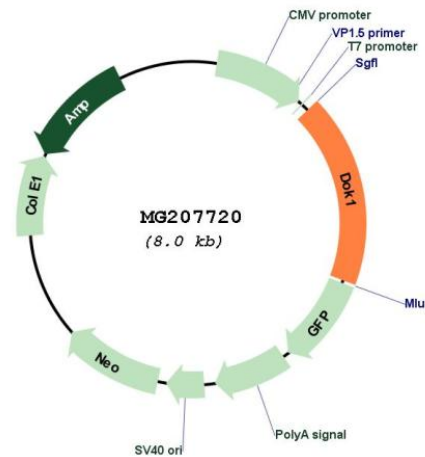
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_010070

ORF Size: 1446 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: 1812 bp

RefSeq ORF: 1449 bp

Locus ID: 13448

UniProt ID: [P97465](#)

Cytogenetics: 6 35.94 cM

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]