

## Product datasheet for MR229806

### Dok1 (NM\_001291799) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dok1 (NM_001291799) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dok1
Synonyms:	AW557123; p62DOK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229806 representing NM_001291799 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATACGCTGGCTGAATGTGTGAGCGTGGTCCGGTGACTGTGGAGAGTCCCCTGAGCCGGCGCTG  
TTGCCTTCGGCTGGACACCGCACAGCGCTCGCACCTGCTGGCGGGACGCGTATCCAGCACCCTG  
GGTGCAGACTTTATGCAGAACCGCTTTCCGAAAGCGGCTGGGCTTTGGCGCAGACGGAGAACCACT  
AAGTTTTCTGCCTTGGAGATGCTGGAGAATTTCGCTGTACAGCCCCACTGGGAAGGATCCCAGTTCTGGG  
TAACCTCGCAGAAGACCGAGGCTTCTGAACGCTGCGGCTTGAAGGCTCCTACATACTGAGGGTGAAGC  
TGAGAAGCTGACTCTCCTGACTTTGGGTGCGCAGAGTCAAATCCTGGAGCCGCTCCTTTCTGGCCCTAC  
ACTCTGTTGCGTCGCTATGGCCGGGACAAGGTAATGTTCTCCTTTGAAGCTGGTCGCGCTGCCCTCAG  
GCCCTGGGACCTTACCTTCCAGACTTCTCAGGAAATGACATCTTTAGGCAGTTGAGGCTGCCATCCA  
GCAGCAGAAAGCCCAAGGAAAGGTGGGCCAGGCACAGGATATCCTCAGAAGTACTCCCATGATGGGGAG  
ACAGAGGGGAAGACAGTTCCCTCCTGTTCCCGAGACCCCTGGGCAGCCCTCCAGCCCTATATGCGG  
AGCCTTTAGACTCCTTGCGAATTCCTCCAGGCCCTTCTCAGACTCTGTATATTCCAGCCCTGCGCAG  
CACCCCTGCTGGGCAGGGGAAGGGGTGCAATTCAGAAACCTCTCTATTGGGATTTGTATGGGCATGTG  
CAGCAGCAGTTACTGAAAACCAAGCTGACAGACTCCAAAGAGGACCCCATCTATGATGAACCTGAAGGCC  
TGGCCCCCGCCCTCCCGGGGCTTTATGATCTGCCTCAGGAGCCTCGGGATGCATGGTGGTGCCAGGC  
TCGGCTGAAGGAAGAGGGCTATGAGCTCCCTTACAACCTGCCACCGATGACTATGCTGTGCCACCTCCC  
CGGAGCCCAAAGCCTGCTCCTGCCCAAGCCACAGGGCTTGATCCTCCCGAATCGGGTACCACTCGTG  
GCAGTGGCAGCAAAGGCTTCAAGCTCAGATACAGCTCTGTACAGCCAGGTCCAGAAAAGTGGGACCTCAGG  
GGCTTGGGACTGTGGACTCTCTAAAGTAGGAATGACAGGGCGGGGTCAAGTCTGAGGGTTCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229806 representing NM\_001291799  
 Red=Cloning site Green=Tags(s)

MIRLAECVSVVPVTVESPPPEGAVAFRLDTAQRSHLLAADAVSSTAWVQTLCRTAFPKGGWALAQTENQP  
 KFSALEMLENSLYSPTWEGSQFWVTSQKTEASERCGLQGSYILRVEAEKLTLLTLGAQSQILEPLLFWPY  
 TLLRRYGRDKVMFSFEAGRRCPSGPGTTFQTSQGNDFQAVEAAIQQKAQKVGQAQDILRTDSHDGE  
 TEGKTVPPPVPQDPLGSPPALYAEPLDSLRIPPGPSQDSVYSDPLGSTOPAGAGEGVHKKPLLYWDLYGHV  
 QQQLLTKLTDKEDPIYDEPEGLAPAPRGLYDLQPQPRDAWWCQARLKEEGYELPYNPATDDYAVPPP  
 RSPKPAAPKPKQGLILPESGTTTRGSGSKGFSSTALYSQVQSGTSGAWDCGLSKVGNDRAGVKSEGST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

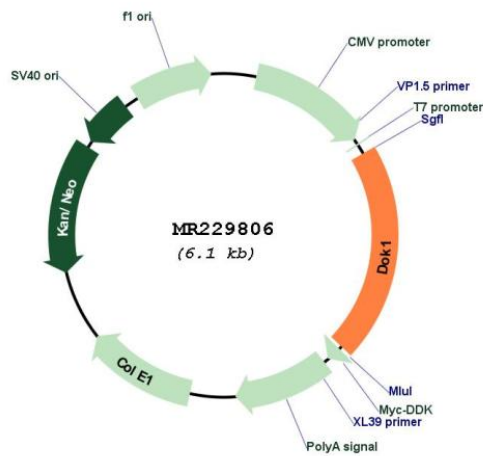
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001291799

<b>ORF Size:</b>	1257 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291799.1</a> , <a href="#">NP_001278728.1</a>
<b>RefSeq Size:</b>	1809 bp
<b>RefSeq ORF:</b>	1260 bp
<b>Locus ID:</b>	13448
<b>UniProt ID:</b>	<a href="#">P97465</a>
<b>Cytogenetics:</b>	6 35.94 cM
<b>MW:</b>	45.8 kDa
<b>Gene Summary:</b>	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]