

## Product datasheet for **RN210723**

### **Dok1 (NM\_001025416) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dok1 (NM_001025416) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dok1
Synonyms:	Dok-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN210723 representing NM\_001025416  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGGGGCTTTGATGGAGGGTCCGCTTTTTCTGCAGAGTCAGCGCTTCGGGACCAAGAGGTGGAAGA  
 AAACCTTGGGCTGTGCTTTACCCAGCCAGCCCTCACGGCGTGGCGGGCTGGAATTCCTTTGATCACAAAGG  
 GTCGAGCTCTGGAGGGGTCGAGGCGGCTCTCGCCGTCTAGACTGCAAGATGATACGCTGGCTGAATGT  
 GTGAGCGTGGTGCCTGTGACTGTGGAGAGTCCCCCTGAGCCCGGCGCTCTGCCTCCGCTGGACACCG  
 CACAACGCTCGCACCTGCTTGCAGCGGACGCCGATCCAGCACTGCCTGGGTGCAGATTTTATGCAGAAC  
 CGCTTTCCGAAAGGCGGCTGGCTTTGGCTCAGACGGAGAACCACCTAAGTTTTCTGCCCTGGAGATG  
 CTGAGAATTGCTGTACAGCCCACCTGGGAAGGATCCCAATTCTGGTAACTCGAGAAGACCGAGG  
 CTTCTGAACGCTCGGCTTGCAAGGCTCTACGTACTGAGGTTAGAAGCTGAGAAGCTGACCCTTCTGAC  
 TTTGGGTGCACAGAGTCAAATCCTGGAGCCGCTCTTTCTGGCCCTACACTCTGTGCGACGCTATGGC  
 CGAGACAAGGTAATGTTCTCCTTTGAAGCGGGTCGCCGCTGCCCTCTGGCCCTGGGACCTTCACCTTC  
 AGACTGCCAGGGAAATGACATCTTTCAGGCAGTTGAGGCTGCTATCCAGCAGCAGAAAGCCCAAGGAAA  
 GGTGGGACAGGGACAAGATATCACCAGAAGTACTCCCATGATGGGGAGACAGAGGGGAAGATGGCTCCC  
 ACTCCTGTTCCCCAGGAACCCCTGGGCAGCCCTCCAGCCCTATATGCAGAGCCTTTAGACTCCCTGCGAA  
 TTCCTCCAGGCCCTTCTCAGGACTCTTTGTATTAGACCCCTGGGCAGCACCCCTGCTGGGGCAGGGGA  
 AGGGGTGCAGCGGAAGAAACCTCTCTATTGGGATTTGTATGGGCACGTGCAGCAGCAGTTGCTGAAAAC  
 AAGCTGATAGACTCCAAGAGGACCCATCTATGATGAGCCTGAGGGCTGGCCCTGCCCTCTCCGGG  
 GCCTTTATGATCTGCCTCAGGAGCCTAAGGATGCATGGTGGTGCCAGGCTCGGCTGAAGGAAGAGGGCTA  
 TGAGCTCCCTTACAACCCCGCCACCGAGACTACGCTGTGCCACCCCTCGGAGCTCAAAGCCTACCCCT  
 GCCCCAAGCCACAGGGCTTGATCCTTCTGAATCTGGTACCACAGCTGGCAGTGGCAGCAAAGGCTCAG  
 ATACAGCTCTGTACAGCCAGGTCCAGAAAAGTGGGACCCAGGGAGATGGGACTGTGGACTCTAGAGT  
 AGGGAATGACAGGGTGGGGTCAAGTCAGAGGGTCCACCTGA

**ACGGT**ACGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001025416

**Insert Size:** 1443 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001025416.1](#), [NP\\_001020587.1](#)

RefSeq Size: 1757 bp

RefSeq ORF: 1443 bp

Locus ID: 312477

UniProt ID: [Q4QQV2](#)

Cytogenetics: 4q34

**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]