

## Product datasheet for MR204317

### Dok5 (NM\_029761) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dok5 (NM_029761) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dok5
Synonyms:	2700055C10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204317 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCTTCCAATTTAATGACATAGTGAAGCAGGGGTACGTGAGGATCCGGAGCAGACGCCTAGGGATTT  
ATCAACGATGCTGGTTAGTGTTCAAGAAAGCTTCGAGCAAGGGTCAAAGAGACTGGAGAAGTTCTCAGA  
TGAACGGGCCGCTACTTCAGGTGTTACCACAAGGTTACAGAACTCAACAATGTGAAAAATGTAGCCCGA  
TTGCCAAAGACCAAGAAACATGCTATAGGGATTTATTTCAATGATGACACCTCGAAGACCTTTGCCT  
GTGAATCAGATCTTGAGGCAGACGAATGGTGCAAAGTTCTCCAGATGGAGTGTGTGGGACCAGAATCAA  
TGACATCAGCCTCGGAGAGCCTGATTTATTGGCTACCGGGGTGGAACGCGAGCAGAGCGAGAGGTTCAAT  
GTGATTTTGATGCCATCTCCTAACTTAGATGTACATGGCGAATGTGCCTTGCGGATTACATATGAGTACA  
TCTGTCTTTGGGACGTCCAGAATCCCAGAGTTAAACTCATCTCTTGGCCGCTAAGTGCCTGCGCGGTTA  
TGGACGAGACACCACGTGGTTCACCTTTGAGGCAGGGAGGATGTGTGAGACTGGCGAAGGGTTATTTATT  
TTTCAAACACGAGACGGAGAGGCCATCTACCAGAAGGTCCACTCTGCTGCCTTGGCCATAGCTGAGCAGC  
ATGAACGGCTGCTGCAGAGCGTGAAAAATTCATGATGAAGAAGAGCGAGCGGGCAGCGTCTGCTGAGCAC  
CGTGGTGCCCTGCCCGCAGCGCCTACTGGCAGCATATCACGAGGCAGCACAGCACAGGACAGCTGTAC  
CACCTTCAAGATGTCACCAGCCCGTGAAGCTTCACCGGACAGAGACTTCCCCACCTACCGGTCTGAGC  
AC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204317 protein sequence  
Red=Cloning site Green=Tags(s)

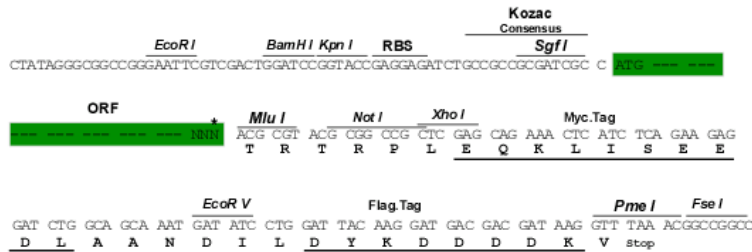
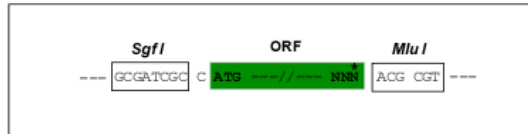
MASNFNDIVKQGYVRIRSRRLGIYQRCWLVFKKASSKGPKRLEKFSDERAAYFRCYHKVTELENNVKNVAR  
 LPKSTKKHAIGIYFNDDTSKTFACESDLEADWCKVLQMECVGTRINDISLGEPELLATGVEREQSERFN  
 VYLMPSNLDVHGECALRITYEYICLWDVQNPVKLISWPLSALRRYGRDITWTFEAGRMCEGEGFLI  
 FQTRDGEAIYQKVHSAALIAEQHERLLQSVKNSMMKKSERAAASLSTVVPLPRSAYWQHI TRQHSTGQLY  
 HLQDVTSPCLKLHRTETFPPTYSERH

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\_029761

**ORF Size:** 915 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\\_029761.1](#), [NM\\_029761.2](#), [NM\\_029761.3](#), [NM\\_029761.4](#), [NP\\_084037.2](#)

**RefSeq Size:** 1774 bp

**RefSeq ORF:** 921 bp

**Locus ID:** 76829

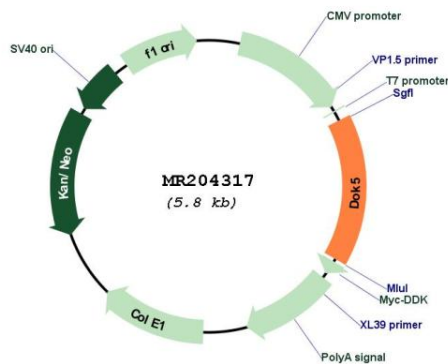
**UniProt ID:** [Q91ZM9](#)

**Cytogenetics:** 2 92.26 cM

**MW:** 35.2 kDa

**Gene Summary:** DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK5 functions in RET-mediated neurite outgrowth and plays a positive role in activation of the MAP kinase pathway. Putative link with downstream effectors of RET in neuronal differentiation. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204317