

Product datasheet for **MR223379**

Dok5 (NM_001163686) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dok5 (NM_001163686) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dok5
Synonyms: 2700055C10Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR223379 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCCAATTTAATGACATAGTGAAGCAGGGTACGTGAGGATCCGGAGCAGACGCCTAGGGATTT
ATCAACGATGCTGGTTAGTGTTCAGAAAGCTTCGAGCAAGGGTCAAAGAGACTGGAGAAGTTCTCAGA
TGAAACGGCCGCTACTTCAGGTGTACCACAAGTTACAGAACTCAACAATGTGAAAAATGTAGCCCGA
TTGCCAAAGAGCACCAAGAAACATGCTATAGGGATTTATTTCAATGATGACACCTCGAAGACCTTTGCCT
GTGAATCAGATCTTGAGGCAGACGAATGGTCAAAGTTCTCCAGATGGAGTGTGTGGGGACCAGAATCAA
TGACATCAGCCTCGGAGAGCCTGATTTATTGGCTACCGGGGTGGAACGCGAGCAGAGCGAGAGGTTCAAT
GTGATTTGATGCCATCTCCTAACTTAGATGTACATGGCGAATGTGCCTTGACAGATTACATATGAGTACA
TCTGTCTTTGGGACGTCCAGAATCCCAGAGTTAAACTCATCTCTTGCCCGCTAAGTGCCTGCGGCGTTA
TGGACGAGACACCACGTGGTTCACCTTTGAGGCAGGGAGGATGTGTGAGACTGGCGAAGGGTTATTTATT
TTCAAACACGAGACGGAGAGGCCATCTACCAGAAGTCCACTCTGCTGCCTTGCCATAGCTGAGCAGC
ATGAACGGCTGCTGCAGAGCGTGAAAAATTCATGATGAAGAAGAGCGAGCGGGCAGCGTCTGAGCAC
CGTGGTGCCCTGCCCGCAGCGCCTACTGGCAGCATATCACGAGGCAGCACAGCACAGGACAGCTGTAC
CACCTTCAAGATGTCACCAGCCCGCTGAAGCTTACCAGGACAGAGACTTTCCCCACCTACCGGTCTGAGC
AC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223379 protein sequence
Red=Cloning site Green=Tags(s)

MASNFNDIVKQGYVRIRSRRLGIYQRCWLVFKKASSKGPKRLEKFSDERAAYFRCYHKVTELENNVKNVAR
 LPKSTKKHAIGIYFNDDTSKTFACESDLEADWCKVLQMECVGTRINDISLGEPELLATGVEREQSERFN
 VYLMPSPLNDVHGECALQITYEYICLWDVQNPVKLISWPLSALRRYGRDITWFTEAGRMCEGGLFI
 FQTRDGEAIYQKVHSAALIAEQHERLLQSVKNSMMKKSERAAASLSTVVPLPRSAWQHI TRQHSTGQLY
 HLQDVTSPKLHRTETFPPTYRSEH

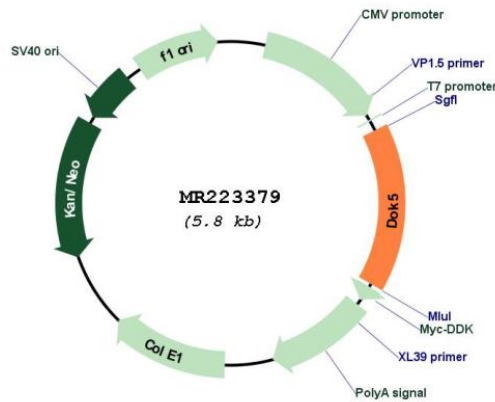
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001163686

ORF Size: 912 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:	<ol style="list-style-type: none">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_001163686.1 , NP_001157158.1
RefSeq Size:	1768 bp
RefSeq ORF:	915 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]