

Product datasheet for **MG204317**

Dok5 (NM_029761) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dok5 (NM_029761) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dok5
Synonyms: 2700055C10Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204317 representing NM_029761
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCAATTTTAAATGACATAGTGAAGCAGGGGTACGTGAGGATCCGGAGCAGACGCCTAGGGATTT
ATCAACGATGCTGGTTAGTGTTCAAGAAAGCTTCGAGCAAGGGTCAAAGAGACTGGAGAAGTTCTCAGA
TGAACGGGCCGCTACTTCAGGTGTTACCACAAGGTTACAGAACTCAACAATGTGAAAAATGTAGCCCGA
TTGCCAAAGAGCACCAAGAAACATGCTATAGGGATTTATTTCAATGATGACACCTCGAAGACCTTTGCCT
GTGAATCAGATCTTGAGGCAGACGAATGGTGCAAAGTTCTCCAGATGGAGTGTGTGGGACCAGAATCAA
TGACATCAGCCTCGGAGAGCCTGATTTATTGGCTACCGGGGTGGAACGCGAGCAGAGCGAGAGGTTCAAT
GTGATTTTGATGCCATCTCCTAACTTAGATGTACATGGCGAATGTGCCTTGCGGATTACATATGAGTACA
TCTGTCTTTGGGACGTCCAGAATCCCAGAGTTAAACTCATCTCTTGGCCGCTAAGTGCCTGCGCGGTTA
TGGACGAGACACCACGTGGTTCACTTTTGAGGCAGGGAGGATGTGTGAGACTGGCGAAGGGTTATTTATT
TTTCAAACACGAGACGGAGAGGCCATCTACCAGAAGGTCCACTCTGCTGCCTTGGCCATAGCTGAGCAGC
ATGAACGGCTGCTGCAGAGCGTGAAAAATTCATGATGAAGAAGAGCGAGCGGGCAGCGTCTGCTGAGCAC
CGTGGTGCCCTGCCCGCAGCGCCTACTGGCAGCATATCACGAGGCAGCACAGCACAGGACAGCTGTAC
CACCTTCAAGATGTCACCAGCCCGCTGAAGCTTCACCGACAGAGACTTCCCCACCTACCGGTCTGAGC
AC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204317 representing NM_029761
Red=Cloning site Green=Tags(s)

MASNFNDIVKQGYVIRSRRLGIYQRCWLVFKKASSKGPKRLEKFSDERAAYFRCYHKVTELNNVKNVAR
 LPKSTKKHAIGIYFNDDTSKTFACESDLEADWCKVLQMECVGTRINDISLGEPDLLATGVEREQSERFN
 VYLMPSPLNDVHGECALRITYEYICLWDVQNPVKLISWPLSALRRYGRDITWTFEAGRMCEGGLFI
 FQTRDGEAIYQKVHSAALIAEQHERLLQSVKNSMMKKSERAAASLSTVVPLPRSAYWQHI TRQHSTGQLY
 HLQDVTSPKLRHTETFPPTYSRH

TRTRPLE - GFP Tag - V

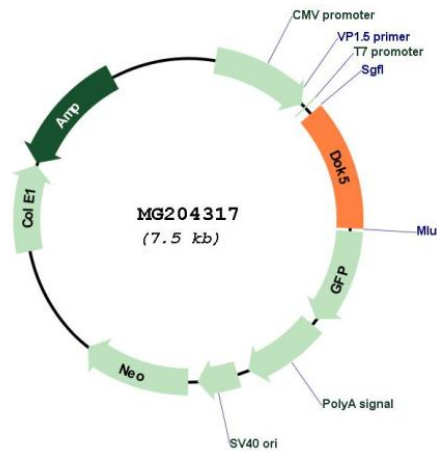
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_029761

ORF Size: 918 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_029761.2 , NP_084037.2
RefSeq Size:	1635 bp
RefSeq ORF:	921 bp
Locus ID:	76829
UniProt ID:	Q91ZM9
Cytogenetics:	2 92.26 cM
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]