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Product datasheet for RR210723

Dok1 (NM_001025416) Rat Tagged ORF Clone

Product data:

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

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ORF Nucleotide Sequence:

>RR210723 representing NM_001025416
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGGGGCTTTGATGGAGGGTCCGCTTTTTCTGCAGAGTCAGCGCTTCGGGACCAAGAGGTGGAAGA
AAACTTGGGCTGTGCTTTACCCAGCCAGCCCTCACGGCGTGGCGCGGCTGGAATTCTTTGATCACAAGGG
GTCGAGCTCTGGAGGGGGTCGAGGCGGCTCTCGCCGTCTAGACTGCAAGATGATACGCCTGGCTGAATGT
GTGAGCGTGGTGCCTGTGACTGTGGAGAGTCCCCCTGAGCCCGGCGCCTCTGCCTTCCGCCTGGACACCG
CACAACGCTCGCACCTGCTTGCAGCGGACGCCGCATCCAGCACTGCCTGGGTGCAGATTTTATGCAGAAC
CGCTTTTCCGAAAGGCGGCTGGGCTTTGGCTCAGACGGAGAACCCACCTAAGTTTTCTGCCCTGGAGATG
CTGGAGAATTCGCTGTACAGCCCCACCTGGGAAGGATCCCAATTCTGGGTAACCTCGCAGAAGACCGAGG
CTTCTGAACGCTGCGGCTTGCAAGGCTCCTACGTACTGAGGGTAGAAGCTGAGAAGCTGACCCTTCTGAC
TTTGGGTGCACAGAGTCAAATCCTGGAGCCGCTCCTTTTCTGGCCCTACACTCTGTTGCGACGCTATGGC
CGAGACAAGGTAATGTTCTCCTTTGAAGCGGGTCGCCGCTGCCCCTCTGGCCCTGGGACCTTCACCTTCC
AGACTGCCCAGGGAAATGACATCTTTCAGGCAGTTGAGGCTGCTATCCAGCAGCAGAAAGCCCAAGGAAA
GGTGGGACAGGGACAAGATATCACCAGAACTGACTCCCATGATGGGGAGACAGAGGGGAAGATGGCTCCC
ACTCCTGTTCCCCAGGAACCCCTGGGCAGCCCTCCAGCCCTATATGCAGAGCCTTTAGACTCCCTGCGAA
TTCCTCCAGGCCCTTCTCAGGACTCTTTGTATTCAGACCCCCTGGGCAGCACCCCTGCTGGGGCAGGGGA
AGGGGTGCAGCGGAAGAAACCTCTCTATTGGGATTTGTATGGGCACGTGCAGCAGCAGTTGCTGAAAACC
AAGCTGATAGACTCCAAAGAGGACCCCATCTATGATGAGCCTGAGGGCCTGGCCCCTGCCCCTCTCCGGG
GCCTTTATGATCTGCCTCAGGAGCCTAAGGATGCATGGTGGTGCCAGGCTCGGCTGAAGGAAGAGGGCTA
TGAGCTCCCTTACAACCCCGCCACCGACGACTACGCTGTGCCACCCCCTCGGAGCTCAAAGCCTACCCCT
GCCCCCAAGCCACAGGGCTTGATCCTTCCTGAATCTGGTACCACAGCTGGCAGTGGCAGCAAAGGCTCAG
ATACAGCTCTGTACAGCCAGGTCCAGAAAAGTGGGACCCCAGGGAGATGGGACTGTGGACTCTCTAGAGT
AGGGAATGACAGGGTGGGGGTCAAGTCAGAGGGTTCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210723 representing NM_001025416
Red=Cloning site Green=Tags(s)

MDGALMEGPLFLQSQRFGTKRWKKTWAVLYPASPHGVARLEFFDHKGSSSGGGRGGSRRLDCKMIRLAEC
VSVVPVTVESPPEPGASAFRLDTAQRSHLLAADAASSTAWVQILCRTAFPKGGWALAQTENPPKFSALEM
LENSLYSPTWEGSQFWVTSQKTEASERCGLQGSYVLRVEAEKLTLLTLGAQSQILEPLLFWPYTLLRRYG
RDKVMFSFEAGRRCPSGPGTFTFQTAQGNDIFQAVEAAIQQQKAQGKVGQGQDITRTDSHDGETEGKMAP
TPVPQEPLGSPPALYAEPLDSLRIPPGPSQDSLYSDPLGSTPAGAGEGVQRKKPLYWDLYGHVQQQLLKT
KLIDSKEDPIYDEPEGLAPAPLRGLYDLPQEPKDAWWCQARLKEEGYELPYNPATDDYAVPPPRSSKPTP
APKPQGLILPESGTTAGSGSKGSDTALYSQVQKSGTPGRWDCGLSRVGNDRVGVKSEGST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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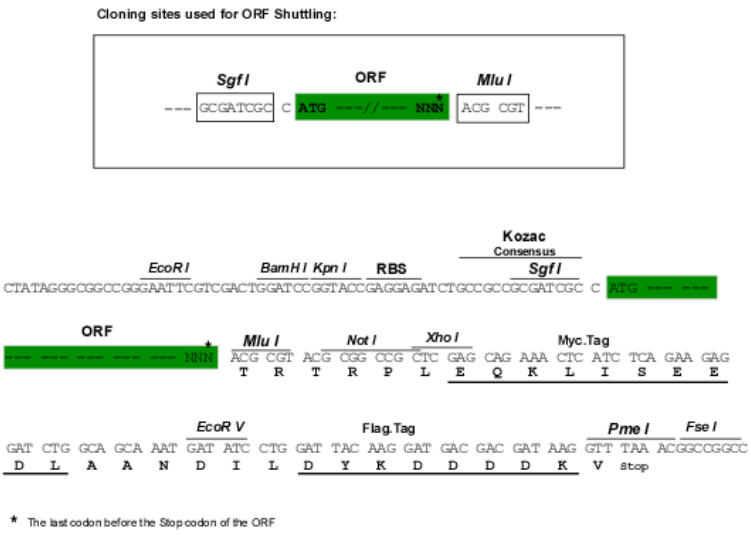
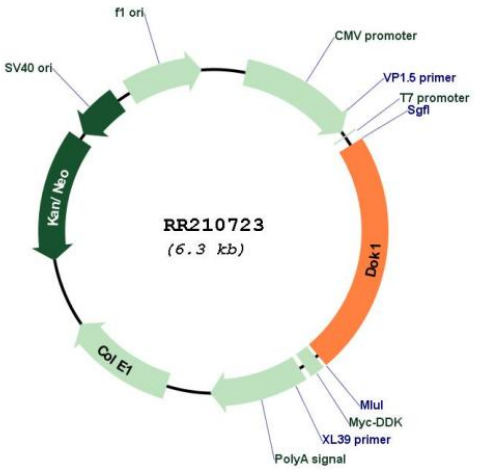
Cloning Scheme:



Plasmid Map:



ACCN: NM_001025416

ORF Size: 1440 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).

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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
MW:	52.2 kDa
Gene Summary:	DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. 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]

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