

Product datasheet for **RR201948**

Dok3 (NM_001107336) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dok3 (NM_001107336) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dok3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201948 representing NM_001107336 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAATCTGTGGAGACACCTGTCAAGGACGGCCTCTCTACCAGCAGCACATGAAGTTGGCAAGAAAT
GCTGGCGCAAAGTGTGGCTCTGCTGTATGCAGGAGGCCCGTCGGGAGTAGCTCGGTAGAAAGCTGGGA
CGTTCGTGATGGTGGCTGGGCCAGGAGGTGACAGGCCCGCAGGGCCTGGCCGTAGAGGGGAAACGCCGG
ATCATACGCTTGGCTGACTGTGTATCTGTTCTGCCGCGGATGGTGAGAGTTGCCCCAGGGACACTGGGG
CCTTCCTGATCACCACTGAGCGAAGCCACCTGCTGGCTGCACAGCACCGCCAGTCATGGATGGACCC
CATCTGCCAGCTGGCCTCCCGAGTACCGGAGAATGTTCTCAGGATCAGGACAGGCTGAGAGTCCAAAA
AGGGGCTTTGTCCCATGGAGGAAAACCTCATCTACTCCTCCTGGCAGGAAGTTGCTGAGTTCCGGTGG
TGGTGCAGAGGACAGAGGCCACCCCGCTGCCAGCTGAAGGGACCCTACCTCCTGGTGTGGGCCAAGA
TGACATTCAGCTGCGGGAGACTCCAAGCCCCAGGCTGCTATAGCTGGCCCTACCGATTCTGCGCAAG
TTTGGCTCTGACAAGGTGTGTTCTCTTTGAGGCTGGCCCGCTGCGACTCAGGAGAGGGCCTTTTTG
CCTTCAGTAGTCCGCTGCACCAGACATATGTGGAGCTGTGGCCGAGCCATTGCCCGTACGCGGAGCG
TCTTCCAGAGTTGGCCATGTCCCACCCTGCCCTCCCTCGGGCCCTCCTCCTGCCTCCCTAGAGCCC
CCTGGAGAGCTTCGGGAGGTGGCCCCAGAATATGAGCTGGCCCTTCCAGAAAGCTGCCTCTAAGTATC
CTGGACCTCAAAGCCTACCCCTGCTGCTCAGCCCCACACAAGACGGGACAGCCTCCAGTCTCTATGCGTC
TGTGTGAAGCAGACCAAGCACAAGCCACCGTGGAGCATCTCTACGAGAAGTGTTCATGCTGGAG
GCCAGCCCTGGGCTGTCCAACGGGGTCTGAGGCCAAGAGGGCCCTCCTGGTGGCCGACAGCCCTGG
GCAGCCCCATCTACCATAACAGCGAGGAGCTGAGTTGGCTGGCTCGGCCACGACAGCAATCTGGAAGC
CCAGTACCGGAGGCTGCTGGAGCTGGAGCTCGATGATGCTGGAGGCGCCGGGCTCCTGGAGCACAGACA
GGCATCAAGGCCAAGCTGTAACCCTGCTGACTCGTGAACGGAAGAAGGGCCCCGCCCTGCGACCGGC
CCCC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201948 representing NM_001107336
 Red=Cloning site Green=Tags(s)

MESVETPVKDGLLYQQHMKFGKKCWRKVWALLYAGGPSGVARLESWDVDRDGLPGGGDRPAGPGRRGERR
 IIRLADCVSVLPADGESCPDRTGAFLITTTERSHLLAAQHRQSWMDPICQLAFPSTGECSSGSGQAESP
 RGFVPMEEENSIYSSWQEVAEFPVVVQRTEATTRCQLKGPYLLVLGQDDIQLRETSKPQACYSWPYRFLRK
 FGSDKGVFSFEAGRRCDSEGLFAFSSPRAPDICGAVAAAIAQRERLELAMSPPCPLPRALSLPSLEP
 PGELREVAPEYELAPSRKLPLTDPGPQSLPLLLSPTQDGTASSLYASVCKQTSKHKATVEHLYENVMLE
 ASPGLSNGGPEAQEGPPGGRSPLGSP IYHNSEELSWPGSAHDSNLEAQYRRLLELELDDAGGAGRPGAQT
 GIKAKLVTLTRETRKGPAPCDRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

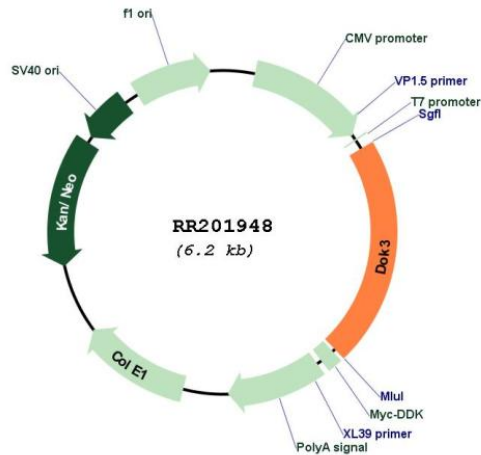
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001107336
ORF Size:	1332 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_001107336.1 , NP_001100806.1
RefSeq Size:	1527 bp
RefSeq ORF:	1335 bp
Locus ID:	306760
UniProt ID:	B2RYG7
Cytogenetics:	17p14
MW:	48.2 kDa
Gene Summary:	DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK3 is a negative regulator of JNK signaling in B-cells through interaction with INPP5D/SHIP1. May modulate ABL1 function (By similarity).[UniProtKB/Swiss-Prot Function]