

Product datasheet for **MG206494**

Dok2 (NM_010071) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dok2 (NM_010071) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dok2
Synonyms:	dok-R; DokR; Frip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206494 representing NM_010071 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCAGGATGGAGGAGCCAGCTGTGAAGCAGGGCTTCCTGCATCTTCAGCAGCAGCAGACCTTTGGCA
AGAAGTGGCGCCGTTTCGCAGCCGTGTTATATGGAGAGTCTGGCTGTGCCCTAGCCAGACTAGAGCTCCA
GGATGTCCCCGAGAAGACACGGCGAGGAGAGGCCACTCGGAAGGTTGTCCGCCTCAGTGACTGCTTACGG
GTAGCAGAGGTAGGCAGTGAGGCCAGCAGCCCCGGGACACCAGTGCCTTCATCCTGGAGACCAAGGAGC
GCCTGTACCTACTGGCAGCCCCCTCGGCAGAGCGCAGTGACTGGATACAGGCCATCTGCCTGTTGGCTTT
CCCGGGACAGAGGAAAGGTCGCCAGGACTGGAGGAAAAGAGCGGCACTCCCTGCATGGAGGAGAACGAG
TTGTATAGCAGCTCCACCACAGGGCTCTGCAAGGAATATATGGTGACCATACGACCCACAGAAGCCAGTG
AGCGCTGCCGGCTCCGAGGGTCTATACTCTCCGGACCGGGGTGAGTGCCTGGAGCTGTGGGGTGGCC
TGAGCCAGGCACACAGCTATGACTGGCCCTACAGGTTTCTTCGACGCTTTGGGCGTGACAAGGCAACT
TTTTCTTTGAGGCTGGCAGACGCTGTCTCTGGAGAGGGCAACTTTGAGTTCGAAACACGACACGGCA
ATGAGATCTTCCAAGCCTTAGAAAAGGTCATTACTGTCCAGAAGAATGCCACCCCTCCGGGCCCTCCATC
CCTGCCAGCCACAGGGCCATGATGCCACTGTGCTGCCTCGACTGAAAGCCCCATTCCCGGCCCCAC
GACTCTCGCTTCTCCATCCCCTGGCACACTGGTGCCTGGCATGAGGCCAGGGCCCTGAGGGGGAT
ATGCCGTACCCTTTGATACGGTGGCTCACTCCCTGAGGAAGAGCTTCAGGGCCTCCTGACGGGCCCC
TCCACACCTTCCCGACCCACTGTATGACAGCATTGAGGAGATCCTGGGGCCCTCTACCTGACCACATA
TATGATGAACCTGAGGGTGTGGCTGCCCTGTCCCTCTATGACAGGACACAGAGGCCCTCAGGGGAGACAT
GGAGGGAGCAGGCCACTGCCGATGGGGTCCCAGCTCCCTCCAGCAAGACTCCTCTGTGCCTGACTGGCC
ACAGGCAACTGAGTATGACAATGCATACTTAAAAAGGCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206494 representing NM_010071
 Red=Cloning site Green=Tags(s)

MVRMEEPAVKQGFLHLQQQTFGKKWRRFAAVLYGESGCALARLELQDVPEKTRRGEATRKVVRLSDCLR
 VAEVGSEASSPRDTSAFILETKERLYLLAAPSAERSDWIQAICLLAFPGQRKSGPLEEKSGSPCMEENE
 LYSSSTTGLCKEYMTIRPTEASERCRLRGSYTLRTGVSALWGGPEPGTQLYDWPYRFLRRFGRDKAT
 FSFEAGRRLSGEGNFEFETRHGNEIFQALEKVIIVQKNATPSGPPSLPATGPMMPVLPREPESYSRPH
 DSLPSPSPGTLVPGMRPGAPEGEYAVPFDTVAHSLRKSFRGLLTGPPHLPDPLYDSIQEDPGAPLPDHI
 YDEPEGVAALSLYDRTQRPSETWREQATADGGPSSLQQDSSVPDWPQATEYDNLVILKKGK

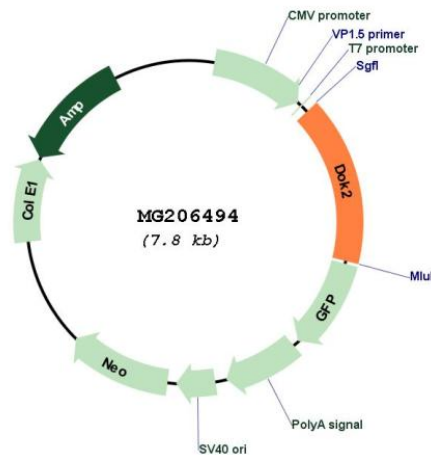
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010071

ORF Size:	1236 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_010071.2 , NP_034201.1
RefSeq Size:	1717 bp
RefSeq ORF:	1239 bp
Locus ID:	13449
UniProt ID:	O70469
Cytogenetics:	14 36.71 cM
Gene Summary:	DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK2 may modulate the cellular proliferation induced by IL-4, as well as IL-2 and IL-3. May be involved in modulating Bcr-Abl signaling. Attenuates EGF-stimulated MAP kinase activation.[UniProtKB/Swiss-Prot Function]