

## Product datasheet for **MG204738**

### Dok4 (NM\_053246) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dok4 (NM_053246) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dok4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204738 representing NM_053246 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGACCAATTTCAACGACATCGTCAAGCAAGGCTATGTGAAGATGAAGAGCAGGAAGCTCGGGATTT  
ACCGGAGGTGCTGGCTGGTGTCCGAAATCTCCAGCAAGGGGCCAGCGGCTGGAGAAGTATCCTGA  
TGAGAAGTCCGTGTGCCTCCGAGGCTGCCCAAGGTGACTGAGATTAGCAACGTCAAGTGTGCACACGG  
CTCCCAAGGAGACCAAGAGGCAGGCGGTGCCATCATATCACAGACGACTCCGCTCGCACCTTCACTT  
GTGACTCAGAGCTGGAGGCAGAAGAGTGGTACAAGACACTGTCCGTGGAATGTCTGGATCAGCGCTCAA  
TGACATCAGCCTGGGAGAGCCTGACCTCCTGGCTCCAGGAGTACAGTGTGAGCAGACAGATCGCTTCAAC  
GTCTTCTGTTACCCTGCCCAACCTGGACGTGTATGGGAGTGCAAGCTGCAGATCACTCACGAGAACA  
TCTACCTCTGGACATACACAACCCCGCGTGAAGCTCGTCTCGTGGCCCTCTGCTCTTTGCGCCGTTA  
TGGCCGAGATGCTACGCGCTTTACCTTTGAGGCGGCAGGATGTGTGACGCTGGGAAGGGCTCTATACC  
TTTCAGACACAGGAGGGGAGCAGATTTACCAGCGGTTACAGTGCCACCCTGGCCATCGCCGAGCAGC  
ACAAGCGGGTCTGCTGGAGATGGAGAAGAATGTGAGGCTGCTGAACAAGGCACCGAGCACTACTCCTA  
TCCCTGCACACCCACGGCATGCTGCCCGCAGCGCTACTGGCACCATATCACAGGTTCTCAGAACATT  
GCTGAAGCCTCCAGCTATGGGAAAGTTATGGGGCAGCCAGGCCAGCTCGGAAACAGACCTCCTGAACA  
GGTTCATCTTGCTTAAGCCAAAGCCAGTCAGGAGGATAGCAGTGAGGCCAAGACCCCTGCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204738 representing NM\_053246  
Red=Cloning site Green=Tags(s)

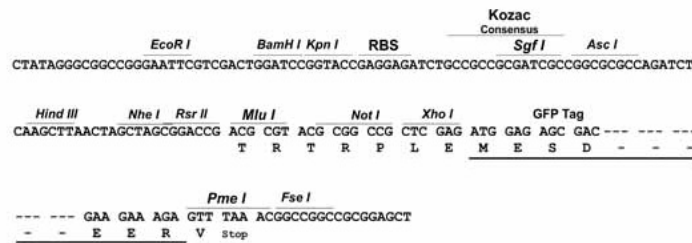
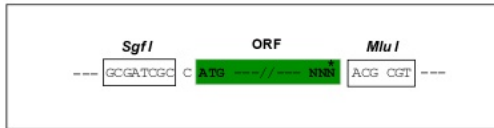
MATNFNDIVKQGYVKMSRKLGIYRRCWLVFRKSSSKGPQRLEKYPDEKSVCLRGCPKVTEISNVKCVTR  
 LPKETKRQAVAIIFTDDSDARTFTCDSELEAEWYKTL SVECLGSR LNDISLGE PDLLAPGVQCEQ TDRFN  
 VFLLPCPNLDVYGECKLQITHENIYLWDIHNPRVKLVSWPLCSLRRYGRDATRFTFEAGRMCDAGEGLYT  
 FQTQEGEQIYQRVHSATLAI AEQH KRVLLEMEKNVRLNKGTEHYSYPCPTAMLPR SAYWHHITGSQNI  
 AEASSYGESYGA AQSSETDLLNRFILLKPKPSQEDSSEAKTPAQ

TRTRPLE - GFP Tag - V

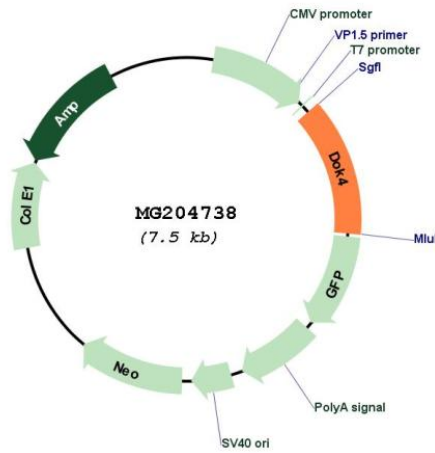
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_053246

**ORF Size:** 975 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_053246.3</a>
<b>RefSeq Size:</b>	2534 bp
<b>RefSeq ORF:</b>	978 bp
<b>Locus ID:</b>	114255
<b>UniProt ID:</b>	<a href="#">Q99KE3</a>
<b>Cytogenetics:</b>	8 C5
<b>Gene Summary:</b>	DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK4 functions in RET-mediated neurite outgrowth and plays a positive role in activation of the MAP kinase pathway (By similarity). Putative link with downstream effectors of RET in neuronal differentiation. May be involved in the regulation of the immune response induced by T-cells (By similarity). [UniProtKB/Swiss-Prot Function]