

## Product datasheet for **RG222370**

### **DOK3 (NM\_024872) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DOK3 (NM_024872) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DOK3
Synonyms:	DOKL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG222370 representing NM\_024872  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACTCGGGGAGCCAGACTGCGATCAGACCGCGTGCCAGCTGAACCAGCTGTCTCTGGACGGAGGGA  
 CGGAAGTGCCAGAAGGGGAAGTGTGAGGAGTCCCGTCCAGCCTGTATCAGTCTCCCAAGTCTTGA  
 AGCGGCGGCCCTGCTCCTGGCCGTGACCATGGACCCTCTGGAGACCCCTATCAAGGATGGATCCTCTAC  
 CAGCAGCATGTCAAGTTTGGCAAGAAGTCTGGCGGAAGGTGTGGGCTCTGCTGTATGCAGGAGGCCAT  
 CAGGCGTGGCACGGCTGGAGAGCTGGGAGTCCGGGATGGTGGCCTGGGAGCAGCGGGTACAGGTCCGC  
 AGGGCCTGGCCGGCAGGGGAGCGACGGGTATCCGCCTGGTACTGTGTGTCCGTGCTGCCGGCTGAC  
 GCGGAGAGCTGCCCCGGGACACCGGTGCCTTCTGCTCACCACCACCGAGCGAAGCCATCTACTGGCTG  
 CTACGACCGCCAGGCCGGATGGGCCCATCTGCCAGCTGGCCTTCCCGGGACAGGGGAGGCCCTCCTC  
 AGGATCCACAGATGCCAGTCTCCAAGAGGGCCTGGTCCCATGGAGGAAAATCCATCTACTCTCC  
 TGGCAGGAAGTGGCGAGTTTCCCGTGGTGGTGCAGAGGACTGAGGCCGCCACCCGCTGCCAGCTGAAGG  
 GGCCGGCCCTGCTGGTGTGGGCCAGACGCCATCCAGCTGAGGGAGGCCAAGGGCACCCAGGCCCTCTA  
 CAGCTGGCCCTACCACTTCTGCGCAAGCTCGGCTCCGACAAGGGCGTGTCTCCTTTGAGGCGGCCGT  
 CGCTGCCACTCGGGTGGGGCCTCTTGGCTTACGACCCCTGTGCCCTGACCTGTGCAGGGCTGTGG  
 CCGGGCCATCGCCGCCAGCGGGAGCGGCTGCCAGAGCTGACCAGGCCACGCCCTGCCCTGCCACG  
 GGCCACCTCTCTGCCCTCCCTGGACACCCCGGAGAGCTTCGGGAGATGCCACCAGGACCTGAGCCACCC  
 ACGTCCAGGAAAATGCACCTGGCCGAGCCCGACCCAGAGCCTGCCGCTACTGCTAGGCCCGAGCCCA  
 CTATGAGAACCTGTGTGTGCTGGAGGCCAGCCACGCTGCACGGTGGGGAACCTGAGCCGACGAGGGC  
 CCCGGCAGCCGACGCCACAACAGTCCCATCTACCACAACGGCCAGGACTTGAGCTGGCCCGGCCGG  
 CCAACGACAGTACCCTGGAGGCCAGTACCGCGGCTGCTGGAGCTGGATCAGGTGGAGGCCACAGGCCG  
 CCCTGACCCTCAGGCAGTTTCAAGGCCAAGCTGGTGACCCTGCTGAGTCGTGAGCGGAGGAAGGCCCA  
 GCCCTTGTGACCGGCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG222370 representing NM\_024872  
 Red=Cloning site Green=Tags(s)

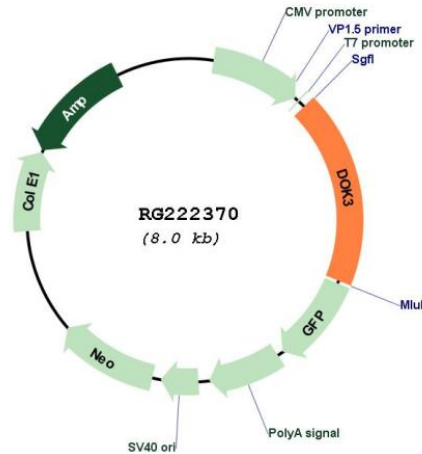
MTRGARLRSDARAQLNQLSLDGGTGSQKKGKCEFPSSLSSVSPGLEAAALLLAVTMDPLETPIKDGILY  
 QQHVKFGKKCWRKVVALLYAGGPGVARLESWEVRDGLGAAGDRSAGPGRRGERRVIRLADCVSVLPAD  
 GESCPDRTGAFLLTTTTERSHLLAAQHRQAWMGPIQCLAFPGTGEASSGSTDAQSPKRGVLPMEENSIYSS  
 WQEVGEFPVVVQRTEAATRCQLKGPALLVLGPDAIQLREAKGTQALYSWPYHFLRKLGSCLKGVFSFEAGR  
 RCHSGEGLFAFSTPCAPDL CRAVAGAIARQRERLPELTRPQPCPLPRATSLPSLDTPGELREMPGPEPP  
 TSRKMHLAEPGPQSLPLLLGPEPNDLASGLYASVCKRASGPPGNEHLYENLCVLEASPTLHGGEPEPHEG  
 PGRSPTTSPYHNGQDLSWPGPANDSTLEAQYRRLLELDQVEGTGRPDPQAGFKAKLVTLISRERRKGP  
 APCDRP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_024872

**ORF Size:** 1488 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).

<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_024872.1</a> , <a href="#">NP_079148.1</a>
<b>RefSeq Size:</b>	1762 bp
<b>RefSeq ORF:</b>	1323 bp
<b>Locus ID:</b>	79930
<b>UniProt ID:</b>	<a href="#">Q7L591</a>
<b>Cytogenetics:</b>	5q35.3
<b>Protein Families:</b>	Druggable Genome
<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. 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]