

## Product datasheet for **RG227445**

### **DOK3 (NM\_001144875) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
 Product Name: DOK3 (NM\_001144875) 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)  
 ORF Nucleotide Sequence: >RG227445 representing NM\_001144875  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACCCTCTGGAGACCCCTATCAAGGATGGCATCCTCTACCAGCAGCATGTCAAGTTTGGCAAGAAGT  
 GCTGGCGGAAGGTGTGGGCTCTGCTGTATGCAGGAGGCCCATCAGGCGTGGCAGGCTGGAGAGCTGGGA  
 GGTCCGGGATGGTGGCTGGGAGCAGCGGGTGACAGGTCGGCAGGGCCTGGCCGGCAGGGGAGCGACGG  
 GTCATCCGCTGGCTGACTGTGTGTCGGTCTGCCGGCTGACGGCAGAGCTGCCCCGGGACACCGGTG  
 CCTTCTGCTCACCACCAGGCGAAGCCATCTACTGGCTGCTCAGCACCGCCAGGCCTGGATGGGCC  
 CATCTGCCAGCTGGCCTTCCCGGGACAGGGGAGGCCCTCCTCAGGATCCACAGATGCCAGTCTCCCAAG  
 AGGGCCCTGGTCCCATGGAGGAAAACCTCATCTACTCCTCTGGCAGGAAGTGGGCGAGTTTCCCGTGG  
 TGGTGCAGAGGACTGAGGCCGCCACCCGCTGCCAGCTGAAGGGGCCGGCCCTGCTGGTGTGGGCCAGA  
 CGCCATCCAGCTGAGGGAGGCCAAGGGCACCCAGGCCCTTACAGCTGGCCCTACCACTTCTGCGCAAG  
 TTCGGCTCCGACAAGATACTTCTGGGAACCCAGGCGTCAGTCTCCTCATCTGTAAAGGAGAGAAACCG  
 ATGACGTATCAGGCATAATCCTTGATGAGAGTTTGTGCTGCTGCTACTCAGTCCAGGCGCTGGGGGACA  
 CAGCCGTGTTTCCAGGACAGCCTTGGTCTGTTCTCCGGGAGCCGACATTCAGGGGAGAGAAATTTCTG  
 AAGACTTCCATGCTGCGTTCCCTCCTCTGCTCCTGCTCCTGGCGCCATCCTAGGAGCCAGCCATGCACGC  
 AAGCGTCATGCCTCCAGGCTCTGACTGCCAGCCCTCACCGCAACTCCACCTCAGCTGCACACACCCCT  
 TGGCACATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227445 representing NM\_001144875  
 Red=Cloning site Green=Tags(s)

MDPLETPIKDGILYQQHVKFGKKCWRKVVALLYAGGPGSVARLESWEVRDGGGLGAAGDRSAGPGRRGERR  
 VIRLADCVSVLPADGESCPDRTGAFLLTTTTERSHLLAAQHRQAWMGPIQCLAFPGTGEASSGSTDAQSPK  
 RGLVPMEEENSIYSSWQEVGFEFVVVQRTEAATRCQLKGPALLVLGPDAIQLREAKGTQALYSWPYHFLRK  
 FGSDKILLGTPGVSLLIKIGERTDDVSGIILDESLLRAYSVPGAGGHSRVQDSLGPVLRPTTFQGERSFL  
 KTSMLRSLLCSCSWRHPRSQPCTQASCLQGSDCPAPHRNSTSAAHTLGTS

TRTRPLE - GFP Tag - V

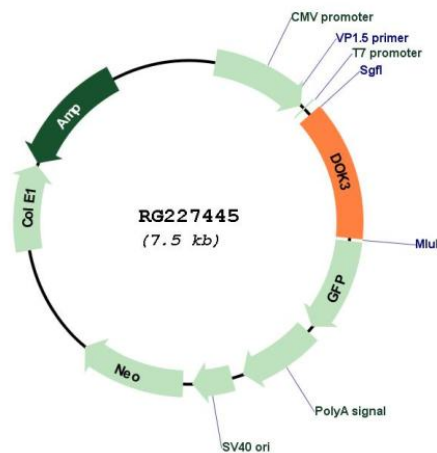
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001144875

**ORF Size:** 990 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_001144875.1</a> , <a href="#">NP_001138347.1</a>
<b>RefSeq Size:</b>	2354 bp
<b>RefSeq ORF:</b>	993 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]