

## Product datasheet for **RG217617**

### **DOK1 (NM\_001381) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DOK1 (NM_001381) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DOK1
Synonyms:	P62DOK; pp62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG217617 representing NM\_001381  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGGAGCAGTGATGGAAGGGCCGCTTTTTTTCAGAGTCAGCGCTTTGGGACCAAGAGGTGGAGGA  
 AGACCTGGGCCGTGCTCTACCCGGCCAGTCCCCACGGCGTAGCGCGGCTCGAGTTCTTTGACCATAAGGG  
 GTCGAGCTCTGGGGTGGCCGAGGGAGCTCGCGCCGCTGGACTGCAAAGTGATCCGCTCGGCTGAGTGT  
 GTGAGTGTGGCCCCGTACCGTGGAGACCCCCCTGAGCCCGGCCACTGCCTCCGCTGGACTG  
 CTCAGCGCTCGCACCTGCTGGCGCCGACGCGCCCTCAGTGCAGCCTGGGTGCAGACGCTGTGCCGAAA  
 CGCCTTTCCGAAAGGCAGCTGGACTCTGGCGCTACCGATAACCCACCTAAGCTTTCTGCCCTGGAGATG  
 CTGGAGAACTCCTGTACAGCCCTACCTGGGAAGGATCCCAATTCTGGTAACGGTGCAGAGGACTGAGG  
 CCGCCGAGCGCTGTGCCCTGCATGGCTCTACGTGCTGAGGTGGAGGCTGAAAGGCTGACTCTCCTGAC  
 CGTGGGGGCCAGAGTCAGATACTGGAGCCACTCTGTCTGGCCCTACACTCTGTTGCGTGCATATGGC  
 CGGGACAAGGTGATGTTCTCTTTTCGAGGCGCGCCGCTGCCCTCAGGCCCTGGAACCTTCACCTTCC  
 AGACGGCACAGGGAAATGACATCTTCCAGGCAGTTGAGACTGCCATCCACCGGCAGAAGGCCAGGGAAA  
 GGCCGGACAGGGGACGATGTTCTCAGAGCTGACTCCCATGAAGGGGAGGTGGCAGAGGGGAAGTTGCC  
 TCCCCACCTGGCCCCAAGAGCTCCTCGACAGTCCCCAGCCCTGTATGCTGAGCCCTTAGACTCCCTGC  
 GCATTGCTCCATGCCCTTCCAGGACTCCCTATACTCAGACCCCTTGACAGCAGCTGCTCAGGCAGG  
 AGAGGGAGTACAACGGAAGAACTCTCTATTGGGACTTGATGAGCATGCGCAGCAGCAGTTGCTGAAG  
 GCCAAGCTGACAGACCCAAAGAGGATCCATCTATGATGAACCTGAGGGCTGGCCCCAGTCCCTCCCC  
 AGGGCCTTTATGATCTGCCTCGGGAGCCCAAGGATGCATGGTGGTCCAAAGCTCGGTAAGGAGGAGGG  
 CTATGAGCTCCCTACAACCTGCCACTGACTACGTGCTGCCACCCCTCGGAGCACAAAGCCCTC  
 CTTGCTCCAAGCCCCAGGGCCAGCCTTCCCTGAACCTGGTACTGCAACTGGCAGTGGCATCAAAGCC  
 ACAACTCAGCCCTGTACAGCCAGGTCCAGAAGAGCGGGCCCTCAGGGAGCTGGGACTGTGGGCTCTAG  
 AGTAGGGACTGACAAGACTGGGGTCAAGTCAGAGGGCTTACC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG217617 representing NM\_001381  
 Red=Cloning site Green=Tags(s)

MDGAVMEGPLFLQSQRFGTKRWRKTWAVLYPASPVGVARLEFFDHKGSSSGGGGRSSRRLDCKVIRLAEC  
 VSVAPVTVETPPEPGATAFRLDTAQRSHLLAADAPSSAAWVQTLCRNAFPKGSWTLAPTDNPPKLSALEM  
 LENSLSPTWEGSQFWVTVQRTEAAERCGLHGSYVLRVEAERLTLLTVGAQSQIILEPLLSPYTLRRYG  
 RDKVMFSFEAGRRCPSGPGTFTFQTAQGNDFQAVETAHRQKAQKAGQGHDVLRADSHEGEVAEGKLP  
 SPPGPQELLDSPALYAEPLDSLRIAPCPSQDSLSDPLDSTSAQAGEGVQRKPLYWDLYEHAQQQLLK  
 AKLTDPKEDPIYDEPEGLAPVPPQGLYDLPREPKDAWWCQARVKEEGYELPYNPATDDYAVPPPRSTKPL  
 LAPKPQGFAPPEPGTATGSGIKSHNSALYSQVQKSGASGSDCGLSRVGTDKTGKSEGST

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001381

**ORF Size:** 1443 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:**

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\\_001381.4](#)

**RefSeq Size:** 1908 bp

**RefSeq ORF:** 1446 bp

**Locus ID:** 1796

**UniProt ID:** [Q99704](#)

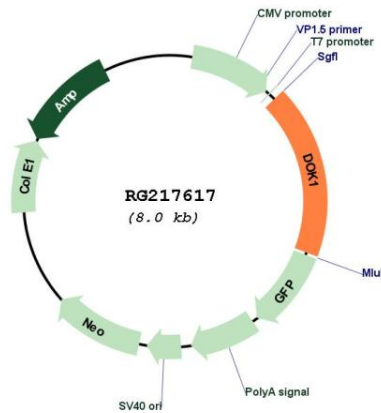
**Cytogenetics:** 2p13.1

**Domains:** PH, IRS

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene is part of a signal transduction pathway downstream of receptor tyrosine kinases. The encoded protein is a scaffold protein that helps form a platform for the assembly of multiprotein signaling complexes. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016]

**Product images:**



Circular map for RG217617