

## Product datasheet for **RG236491**

### **DOK5 (NM\_177959) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DOK5 (NM\_177959) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DOK5  
**Synonyms:** C20orf180; IRS-6; IRS6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236491 representing NM\_177959.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGTGTGTAGGAACACGGATCAATGACATCAGCCTTGGAGAGCCTGACTTACTGGCCACTGGGGTT
GAGAGAGAACAGAGTGAGAGATTCAATGTGATTTGATGCCATCTCCTAACTTAGATGTACATGGCGAA
TGTGCCTTGCAGATTACATATGAGTATATCTGTCTTTGGGACGTCCAGAATCCCAGAGTCAAACATC
TCTTGGCCGCTAAGCGCCTGCGCGGTATGGACGTGATACTACGTGGTCACTTTGAGGCAGGGAGG
ATGTGTGAGACTGGTGAAGGGCTGTTTATCTTTACAGCCGAGACGGGGAGGCCATCATCAGAAAGTC
CACTCTGTGCCTTGGCCATAGCCGAGCAGCAGCGCTTGTACAGAGTGTGAAAACTCGATGCTC
CAGATGAAGATGAGTGAGCGGGCCGCTCGCTGAGCACCATGGTCCCCCTGCCTCGCAGCGCCTACTGG
CAGCACATCACACGGCAGCACAGCAGCGGACAGCTCTACCGCTTCAAGATGTTTCCAGCCCTCTGAAG
CTTCATCGAACAGAGACTTTTCCAGCCTACAGATCTGAGCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236491  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MECVGTRINDISLGEPELLATGVEREQSERFNVYLMPSPLNDVHGEALQITYEYICLWDVQNPVKLI
SWPLSALRRYGRDITWTFEAGRMCEGELFIFQTRDGEAIYQKVHSAALAIQERHLLQSVKNSML
QMKMSERAASLSTMVPLPRSAWQHITRQHSTGQLYRLQDVSSPLKLHRTETFPAYRSEH
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDVSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI

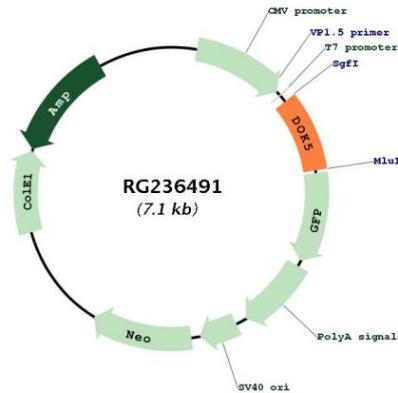


**Cloning Scheme:**


- ACCN:** NM\_177959
- ORF Size:** 594 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).
- RefSeq:** [NM\\_177959.3](#)
- RefSeq Size:** 1734 bp
- RefSeq ORF:** 597 bp
- Locus ID:** 55816
- UniProt ID:** [Q9P104](#)
- Cytogenetics:** 20q13.2
- Protein Families:** Druggable Genome
- MW:** 23.3 kDa

**Gene Summary:**

The protein encoded by this gene is a member of the DOK family of membrane proteins, which are adapter proteins involved in signal transduction. The encoded protein interacts with phosphorylated receptor tyrosine kinases to mediate neurite outgrowth and activation of the MAP kinase pathway. Unlike other DOK family proteins, this protein does not interact with RASGAP. This protein is up-regulated in patients with systemic sclerosis and is associated with fibrosis induced by insulin-like growth factor binding protein 5. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jun 2014]

**Product images:**


Circular map for RG236491