

Product datasheet for **RG235493**

DOK5 (NM_001294161) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DOK5 (NM_001294161) 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: >RG235493 representing NM_001294161.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTTCCAATTTTAATGACATAGTGAAGCAAGGGTACGTGAGGATCCGGAGCAGACGCCTCGGGTG
CTGATCCTGAGAGCCCTCCGCAGTGAACACCCTGCATGCAGATCTCCTTCTTGGAACTGTTCTCTGGAA
AACCCAGTCTCCAGCAACCTGATATGTAAGTCAAACTGCAACTCTAGACCAACCTTCTAAAGAGGGA
TTTAAGACCTTTTCAAGAACTGGCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG235493
Blue=ORF Red=Cloning site Green=Tag(s)

MASNFNDIVKQGYVIRSRRLGVLILRALRSEHPACRSPSWNLFLENPVSSNLICNCKSATLDQPSKEG
FKTFFKNLA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPE
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_001294161

ORF Size: 234 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_001294161.2](#)

RefSeq Size: 907 bp

RefSeq ORF: 237 bp

Locus ID: 55816

Cytogenetics: 20q13.2

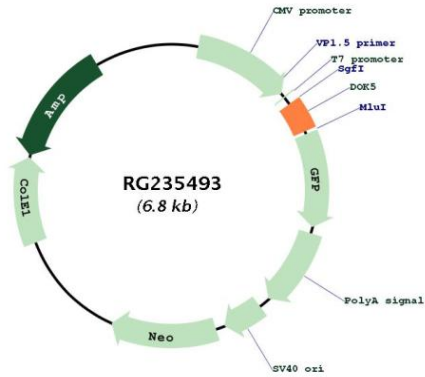
Protein Families: Druggable Genome

MW: 9.3 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 RG235493