

## Product datasheet for SC110530

### DOK5 (NM\_018431) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DOK5 (NM_018431) Human Untagged Clone
Tag:	Tag Free
Symbol:	DOK5
Synonyms:	C20orf180; IRS-6; IRS6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110530 sequence for NM_018431 edited (data generated by NextGen Sequencing)

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ATGGCTTCCAATTTTAATGACATAGTGAAGCAAGGGTACGTGAGGATCCGGAGCAGACGC
CTCGGGATTTATCAGCGATGCTGGTTAGTATTCAAGAAAGCTTCAAGCAAAGGTCCAAAA
AGACTGGAGAAATTTTCTGATGAACGTGCTGCATATTTAGGTGTTATCATAAAGTTACA
GAACTCAATAATGTGAAGAACGTAGCTCGATTGCCAAAAAGCACCAAGAAACATGCCATA
GGGATTTATTTCAATGACGATACCTCCAAGACTTTTGCTTGCGAATCAGATCTTGAGGCT
GATGAGTGGTCAAAGTACTCCAGATGGAGTGTGTAGGAACACGGATCAATGACATCAGC
CTTGGAGAGCCTGACTTACTGGCCACTGGGGTTGAGAGAGAACAGAGTGAGAGATTCAAT
GTGATTTTATGATGCCATCTCCTAACTTAGATGTACATGGCGAATGTGCCTTGCAGATTACA
TATGAGTATATCTGTCTTTGGGACGTCCAGAATCCCAGAGTCAAACCTCATCTCTTGGCCG
CTAAGCGCCCTGCGGCGGTATGGACGTGATACTACGTGGTTCACTTTTGAGGCAGGGAGG
ATGTGTGAGACTGGTGAAGGGCTGTTTATCTTTAGACCCGAGACGGGGAGGCCATCTAT
CAGAAAAGTCCACTCTGCTGCCTTGGCCATAGCCGAGCAGCACGAGCGCTTGTACAGAGT
GTGAAAAACTCGATGCTCCAGATGAAGATGAGTGAGCGGGCCGCCTCGCTGAGCACCATG
GTGCCCTGCCTCGCAGCGCCTACTGGCAGCACATCACACGGCAGCACAGCAGCGGACAG
CTCTACCGCTTGAAGATGTTTCCAGCCCTCTGAAGCTTCATCGAACAGAGACTTTTCCA
GCCTACAGATCTGAGCACTGA

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Clone variation with respect to NM\_018431.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_018431 unedited</p> <pre>CAGCATTTTGTAAATACGACTCACTTATAGGGCGGCCGCGATTTCGGCACGAGGCCGCCGAA GCAGCTTCACCTCTCAAACCTTTCTCCACCGACTGCTTGTCTTGACCCTGCCCTCCACCC TCCCCAGAGCCACTTCGGGTGCGCGCTCTTGGGTAAGGGGGGGTACCAGGCTGTCTGGG ATGGCTTCCAATTTAATGACATAGTGAAGCAAGGTACGTGAGGATCCGGAGCAGACGC CTCGGGATTTATCAGCGATGCTGGTTAGTATTCAAGAAAGCTTCAAGCAAAGTCCAAAA AGACTGGAGAAAATTTCTGATGAACGTGCTGCATATTTCAAGTGTATCATAAAGTTACA GAACTCAATAATGTGAAGAACGTAGCTCGATTGCCAAAAAGCACCAAGAAACATGCCATA GGGATTTATTTCAATGACGATACCTCCAAGACTTTTGCTTGCGAATCAGATCTTGAGGCT GATGAGTGGTCAAAGTACTCCAGATGGAGTGTGTAGGAACACGGATCAATGACATCAGC CTTGAGAGCCTGACTTACTGGCCACTGGGGTTGAGAGAGAACAGAGTGAGAGATTCAAT GTGATTTTGTGATGCTCCTAACTTAGATGTACATGGCGAATGTGCTTGCAGATTACA TATGAGTATATCTGTCTTGGGACGTCCAGAATCCAGAGTCAAACATCTCTTGGCCG CTAAGCGCCCTGCGGCGGTATGGACGTGATACTACGTGGTTCACTTTTGAGGCAGNAGG ATGTGTGAGACTGGTGANAGGCTGTTTATCTTTACAGCCGAGACGGNNGAGCCATCTAT CAGAAAAGTCCACTCTGCTGNCTTGGCCATAGCCGAGCAGCACGAGCGCTTGTACAGAGT GTAAAAACTCGATGCTCCAGATGAAAGATGAGTGAGCGGNCCGNCCTCGCTGCACN</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_018431 unedited</p> <pre>ATGGACCGCGACTCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTATGGGGTGAAGA ATGATCTTTTATTTTCAAATGTTTTATGAAGAGACTCCGAACAAAATAAAGGCTTTCAA AAGCGGGTAAGGGGTGAGGAAAGCATGTGAGAGAACTGTAACCTGTAAACAATACT AACGGGTTCTTTGAACAAATAGTTTTGAACAGAACAGATAAGAGTGAGTGAAGCACTGA TTTAACTAATTGGTGATATAATCAAATATAATTTCCAGTAGTTAATCAGAACCACAGTAA TAATAACTGAGGAATAGGGTGTAAACAAAATAACAAATAATTAAGGCCATTTTATTGTCA ATACTGACTGTCATACACTGAAACACTTGAAGGAAAATCACAAGAATCCACAAAAGGA CAGATTCAGAGAAGTGCAAGGGACAAAGTATCTACAATAGAAAATCATTTCGTGACATTG ACTTCTTTCTGTCCAGCTGTAAAAGAGGGAAACACAGAGTCAATATCTATAGAGCACGTTT CAATTACACTAAGAATTTAAAAAAGAAAAAGAAAATAAAGAAAATTATTGTATTGCAGAG TTTTCCAATGACCACACAATTAGCCAGGACTTTAAGCTTCTTCTTGGTGTGCTATTTC CTTGCTGCTATTCTGTGACCTNCTGGGTGAATCTGTGGCTGACACATCACAAGTGTGTTA ACAACTTTGGCAGTTACTGTCACTGCTCAATCTGTAAGCTGGAAAAATCTCTTGTCTGA TGAAAGCTCAAAGGGCTGAAACATCTTTGCAGCGGTAATCTGTTCCGTGCTGTGCTGG CGTGTGATGTGCTGCCANTAGGCGCTGCNAAGCAGGGCACCTGGTGTGCTTAAACGAGCGGC CGGTCACTCATTTCTGGAACATCCATTTTTTACACTCTGTAACAGCCCTCCTGCTGT TCGCTTTGGCAAAGGCCCAAAATGGCCTTTCTGTAAAGGCTCCCGTTCGGA</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018431
<b>Insert Size:</b>	1830 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_018431.3</a> , <a href="#">NP_060901.2</a>
<b>RefSeq Size:</b>	1833 bp
<b>RefSeq ORF:</b>	921 bp
<b>Locus ID:</b>	55816
<b>UniProt ID:</b>	<a href="#">Q9P104</a>
<b>Cytogenetics:</b>	20q13.2
<b>Domains:</b>	PH, IRS
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>