

Product datasheet for **SC319110**

DOK4 (NM_018110) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | DOK4 (NM_018110) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | DOK4 |
| Synonyms: | IRS-5; IRS5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_018110.2
 CCCGGCGCCGCCGCCCTGCCGCCCCGCCAGCCGCGCCGTGACGCGGGCATGAGCCT
 GCTCCGCGCGCCGCTGAGCAGGCGCTCCTGGCCCGGGCTCGGCGCCCAGCAGGCGCGG
 GGCGAAGGAGCTGCTAGAACAATGCTGAGGCGGGTGAAGTGAAGAGCAGCCCTCGCGGC
 AGCCCCGACAGAGTGTCTGGAACAGGTGATTGGAGGAGCCGAGACCCAGGCACCTGGGC
 ATCTTCCCCTCGCCTCTGCCAGGCCCGCCCTAAAAGGTGGGAAAACCATGGCGAC
 CAATTTCACTGACATCGTCAAGCAAGGCTACGTGAAGATGAAGAGCAGGAAGCTCGGGAT
 CTACCGGAGGTGCTGGCTGGTGTCCGGAAATCCTCCAGCAAGGGGCCAGCGGTGGA
 GAAGTATCCAGATGAGAAGTCCGGTGTGCCTCCGGGGCTGCCCAAGGTGACTGAGATCAG
 CAACGTCAAGTGTGTACGCGGCTCCCCAAGGAGACCAAGCGGCAGGCGGTGGCCATCAT
 ATTCACTGATGACTCGGCACGTACCTTACCTGCGACTCAGAGCTAGAGGCAGAGGAGTG
 GTACAAGACACTATCTGTGGAGTGTCTGGGGTCCCGCCTCAACGACATCAGTCTGGGAGA
 ACCTGACCTCTGGCCCCAGGGTGCAGTGTGAACAGACAGATCGCTTCAATGTCTTCT
 GCTGCCCTGCCCAACCTGGACGTGTATGGCGAGTGAAGCTGCAGATCACCCACGAGAA
 CATCTACCTCTGGGACATCCACAACCCCGTGTGAAGCTCGTCTGTGGCCCTCTGCTC
 ACTGCGCCGCTATGGCCGGGATGCCACACGCTTTACCTTCGAGGCTGGCCGGATGTGTGA
 TGCTGGGGAAGGACTCTATACCTTCCAGACACAAGAGGGGGAGCAGATTTACCAGCGCT
 CCACAGTGCCACCCTGGCCATCGCAGAGCAGCACAAAGCGGGTCTCTGTTGAAATGGAGAA
 GAACGTGAGGCTGCTGAACAAGGACAGGAAACATTACTCGTATCCCTGCACACCCACGAC
 CATGCTGCCGCGCAGTGCCTACTGGCACCACATCACTGGTCCCAGAACATCGCCGAAGC
 CTCCAGTATGCTGGTGAAGGGTATGGGGCAGCCAGGCCAGCTCGGAAACAGACCTCCT
 CAACAGATTCATCTGCTAAAGCCAAAGCCAGCCAGGGGGACAGCAGTGAAGCAAGAC
 CCCATCCCAGTGACCACAGTGTGGCGAGCACCAGTACTGCTGGGGGCTGCCTGTGCG
 GGGCTGGCTGCAGTGTACCGTGGACAGCCTCAGGGGGTGTGCGCCAAGAGCCTGGAGAA
 AGGGAGCAAGCTGCCCCCTCTTGCSCCAAGGATGAGGCTGACTGAGGCAAGGGCTG
 GCCACACCACCTGAGCATGTGTGAGGGTGGAGTACCCTGGGACTATATACTGTTAAT
 GATTTTAAATATATATGGCTTATGACATACTCTGTATCAATGAGATCCCCTCACCTCACC
 CCATCCTTCCCACCAATACACAAAATTTTTAATCCCATGACCAGGCCACGGTCAAGG
 CTGTTTTTGAAGTATGAGTGCAGTGTGTCATCCTCCATGGCACAGCCCTCTGTGCCA
 GGACCTGCTTGAAGTACCAGGGCCACAGGAGGGGATAATCAGAGCTTGAAGCTGGCACT
 CTGACTGTGGCTTTTCCAAACAGCCAAAGGGCCGGAACAGCAGGTGGCTTCTCAGTTC
 CTCTGGGCTGGAGTGACACAGGAAGGATCTGCACTTCTCTGTGCTGTTGCCAGCCTT
 GCAAGTGGAGTTTTAAGCAGAGGTGACATCTGGTTGACGCCTCAGGTGAAAATCTGGTTT
 TAAAATGTAACCTCTGCACAGGCTCCTTCTGCTTGTAGGCTGGGAAGATGCCCTGGG
 GTAGGGGTGCTGATTACCTCAGCCATGTGGAGGAAGGCTGGAGCTGTTCTGCCCCAGG
 AATAGGCCAGGAGGGAAGGCCGACAGGACTGCCGTGGGGAGCACCCCTGCTGCCCCCC
 TCTCACTGACCAGGGTGGACAATGCCCAAGCAGAGGGAGCCCTTGCCTGTTTGGCC
 ACCCTCTGGCCAGCCAAAAGCACTCTGAAACCAAGACCTTCCCATTCTCCTCCCACAT
 GGTGCTGAGGCTCCCTGCTGCAATGCAATTAAGCAATTGATTTTCTAGTGTGTTATTT
 GTTACTACCATGCAGAAGGGCTATCTTTCTATTACAGTCAAACCTTTGGTTGTGTGGG
 TTTTTTGTGTTTTTGGGTTTTTTTTTAATACTTTAGGGTCTGATTTGTGGGAACA
 GACCTTCTGTAATAACCACTATTTGAGTTGTGGCAGGAGGATGATAAAGCACGCGCC
 CCTCCAAAGGAGCCCTTGAAGTGGAGGTTGAGTGCAGTGCAGCTCGCTCAACGTGAC
 CCGGGGAATGACCACCCAGAGGGATGAGTGCCTGTAGAGGGAACTGGGGTCCAAAGG
 TCTTTGGGAGGGAGGCAGAGCTGGCTGGCTCAGCTAAGTGGCACGATGACGCATGAAGG
 AGATTATGTTGTGCTCTTTATTGCCAAAATAAACACTTTAAAAAGAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_018110

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| OTI Disclaimer: | 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | <ol style="list-style-type: none">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_018110.2 , NP_060580.2 |
| RefSeq Size: | 2727 bp |
| RefSeq ORF: | 981 bp |
| Locus ID: | 55715 |
| UniProt ID: | Q8TEW6 |
| Cytogenetics: | 16q21 |
| Domains: | PH, IRS |
| Protein Families: | Druggable Genome |
| Gene Summary: | <p>DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK4 functions in RET-mediated neurite outgrowth and plays a positive role in activation of the MAP kinase pathway (By similarity). Putative link with downstream effectors of RET in neuronal differentiation. May be involved in the regulation of the immune response induced by T-cells.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the shorter isoform (1).</p> |