

## Product datasheet for **SC315655**

### DOCK1 (NM\_001380) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DOCK1 (NM\_001380) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** DOCK1  
**Synonyms:** ced5; DOCK180  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001380 edited  
ATGGAAAATGGCGCCTAGACGCGGAGTTTCTGCCCCACCCGCGCGGCTCCGGCGGCG  
CCATGACGCGCTGGGTGCCACCAAGCGGAGGAGAAGTACGGCGTGGCTTTTATAACT  
ATGATGCCAGAGGAGCGGATGAACTTTCTTTACAGATCGGAGACTGTGCACATCTTAG  
AAACATATGAAGGGTGGTACCGAGGTTACACGTTACGAAAAAAGTCTAAGAAGGGTATAT  
TTCCTGCTTCATATTCATCTTAAAGAAGCGATAGTTGAAGGAAAAGGCAACATGAAA  
CAGTCATCCCGGGTGACCTCCCCCTCATCCAGGAAGTCACCACGACTCCGAGAGTGGT  
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ACATGATCTATGACCTTATTGAATGGCGATCACAAATCTTTCTGGAAGTCTGCCTCAGG  
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TAGATGATGAAGATAAGCAGCATTTCATTCCTTTTCAGCCGGTGGCAGGGGAGAATGACT  
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GTTTGTGGGTAACATTGAAATTACTTCCCTGGAGATATCCATCAGATCCGAAAAGAGTTTC  
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GAAGCAAAACAACAGCGAAGAACGTGGAGGTCACGGTGTCTGTGTACGATGAGGATGGGA  
AACGATTAGGCATGTGATTTTCCCGGGTGTGGTGTGATGAAGCGATTTTCAGAGTACAAAT  
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CCATCGAGGACGTTAACCGCAGTCACTTCGGTTTACCTTCGCCACAGGTCATCACAGG  
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 CCAGACCAGGCTCCGACGGGTTTGGCCTGGAGCCTCTCCTGCCAAAGAAAATGCACTCCA  
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 AAAAAAGGAACAGCAAACATCAAGAGATATTTGAGAAAGAATTTAAACCCACCGACATTT  
 CCCTGCAGCAGTCTGAGGCTGTGATCCTTTGAAACGATAAGTCCCCTGCGGCCCCAGA  
 GACCGAAGAGCCAGGTGATGAACGTCATTGGAAGCGAAAGGCGCTTCTCGGTGTCCCCT  
 CGTCACCGTCTCCAGCAAACACCCCTCCAGTTACACCAAGAGCCAAGCTCAGCTTCA  
 GCATGCAGTCGAGCTTGGAGCTGAACGGCATGACGGGGCGGACGTGGCCGATGTCCAC  
 CCCCTCTGCCTCTCAAAGGCAGCGTGGCAGATTACGGGAATTTGATGGAAAACAGGACT  
 TGCTGGGCTCGCAAACACCTCCACCTCCCTCCACACCAGGGCATCTGCCACCTCCAC  
 TGCCACGCAAACTCCGCTCCTCCCTCCAAAGACAACCTCGCAAGCAGACATCGGTGG  
 ACTCCGGGATCGTGACGTGACGTGCAAGGCTCTCTGAAAGAGTGTGCTGCCCTCC

- Restriction Sites:** Please inquire
- ACCN:** NM\_001380
- Insert Size:** 5700 bp
- OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.
- 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:** The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM\_001380.3.
- 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\\_001380.3](#), [NP\\_001371.1](#)

RefSeq Size: 6751 bp

RefSeq ORF: 5598 bp

Locus ID: 1793

UniProt ID: [Q14185](#)

Cytogenetics: 10q26.2

Domains: SH3

Protein Families: Druggable Genome

Protein Pathways: Focal adhesion, Regulation of actin cytoskeleton

**Gene Summary:** This gene encodes a member of the dedicator of cytokinesis protein family. Dedicator of cytokinesis proteins act as guanine nucleotide exchange factors for small Rho family G proteins. The encoded protein regulates the small GTPase Rac, thereby influencing several biological processes, including phagocytosis and cell migration. Overexpression of this gene has also been associated with certain cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]  
Transcript Variant: This variant (2) uses an alternate splice site at an internal exon, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.