

Product datasheet for **RC226373**

DOCK9 (NM_001130050) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOCK9 (NM_001130050) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DOCK9
Synonyms:	ZIZ1; ZIZIMIN1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226373 representing NM_001130050 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGCAGGCTGATAAATGCAGGACAAGTAGTAGAAGTGTCAAAAAGGAACTGGTGATTGAGTCCCCCTGC
AATACAAGGATGCAGCTCAGGGCGAAGTGAAGCAGAGAGCCCGGCCCTGTGCCGCAAAGCCAAAGCT
AATTGAGCCACTCGACTATGAAAATGTCATCGTCCAGAAGAAGACTCAGATCCTGAACGACTGTTTACGG
GAGATGCTGCTTCCCTTACGATGACTTTCAGACGGCCATCCTGAGACGACAGGGTCGATACATATGCT
CAACAGTGCCTGCGAAGGCGGAAGAGGAAGCACAGAGCTTGTGTTTACAGAGTGCATCAAAACCTATAA
CTCTGACTGGCATCTTGTGAACATAAAATATGAAGTACTCAGGAGAGTTCGACAGCTCCGAACAAA
GTGGTCAAGTTGGATAAACTTCCAGTTCATGTCTATGAAGTTGACGAGGAGGTCGACAAAGATGAGGATG
CTGCCCTCCCTTGGTCCAGAAAGGTTGGGATCACCAAGCATGGCTGGCTGTACAAAGGCAACATGAACAG
TGCCATCAGCGTGACCATGAGGTCATTTAAGAGACGATTTTCCACCTGATCAACTGGCGATGGATCC
TATAATTTGAATTTTTATAAAGATGAAAAGATCTCAAAGAACCAAAGGATCAATATTTCTGGATTCTC
GTATGGGTGTCGTTCAGAACAACAAAGTCAGGCGTTTTGCTTTTGAGCTCAAGATGCAGGACAAAAGTAG
TTATCTCTTGGCAGCAGACAGTGAAGTGGAAATGGAAGAATGGATCACAATTCTAAATAAGATCCTCCAG
CTCAACTTTGAAGCTGCAATGCAAGAAAAGCGAAATGGCGACTCTCACGAAGATGATGAACAAAGCAAAT
TGGAAGGTTCTGGTCCGGTTTAGATAGCTACCTGCCGAACTTGCCAAGAGTGAAGAGAAGCAGAAAAT
CAAAGTAAAAGTGAAGCAGAGTCAAACCTTTTTTATTTGGACCCAGATGCCAGAAAGCTTGACTTCTCA
TCAGCTGAGCCAGAAGTGAAGTCATTTGAAGAGAAGTTTGAAAAAGGATCCTTGTCAAGTGCAATGATT
TATCTTTCAATTTGCAATGCTGTGTGGCGAAAATGAAGAAGGACCCACTACAAATGTTGAACCTTTCTT
TGTTACTCTATCCCTGTTGACATAAAAACAACCGGAAGATTTCTGCCGATTTCCACGTAGACCTGAAC
CATTTCTCAGTGAGGCAAATGCTCGCCACCACGTCGCCGCGCTGATGAATGGCAGTGGGAGAGCCCAT
CTGTCCCAAGGGCATCCTTCATGAAGCCGCCATGCAGTATCCGAAGCAGGGAATATTTTCAGTCACTTG
TCCTCATCCAGATATATTTCTTGTGGCCAGAATTGAAAAAGTCCTTCAGGGGAGCATCACACATTGCGCT
GAGCCATATGAAAAGTTCAGACTCTTCTAAGGTGGCCAGAAGGTGCTGAAGAATGCCAAGCAGGCAT



[View online »](#)

GCCAAAGACTAGGACAGTATAGAATGCCATTTGCTTGGGCAGCAAGGACATTGTTTAAGGATGCATCTGG
AAATCTTGACAAAAATGCCAGATTTTCTGCCATCTACAGGCAAGACAGCAATAAGCTATCCAATGATGAC
ATGCTCAAGTTACTTGCAGACTTTCCGAAACCTGAGAAGATGGCTAAGCTCCCAGTGATTTTAGGCAATC
TAGACATTACAATTGATAATGTTTCTCAGACTTCCCTAATTATGTTAATTCATCATACATTCCCACAAA
ACAATTTGAAACCTGCAGTAAACTCCCATCACGTTTGAAGTGGAGGAATTTGTGCCCTGCATACAAAA
CACACTCAGCCTTACACCATCTACACCAATCACCTTTACGTTTATCCTAAGTACTTGAATACGACAGTC
AGAAGTCTTTTGGCAAGGCTAGAAATATTGCGATTTGCATTGAATTCAAAGATTAGATGAGGAAGACTC
TCAGCCCTTAAGTGCAATTTATGGCAGACCTGGTGGGCCAGTTTTCAAGAAGCGCCTTTGCTGCAATT
TTACACCATCACCAAAACCCAGAATTTTATGATGAGATTAATAAGAGTTGCCACTCAGCTGCATGAAA
AGCACCACCTGTTGCTCACATTTCTCCATGTCAGCTGTGACAACCTCAAGTAAAGGAAGCAGGAAGAAGAG
GGATGTCGTTGAAACCAAGTTGGCTACTCCTGGCTTCCCCTCCTGAAAGACGGAAGGGTGGTGACAAGC
GAGCAGACATCCCGTCTCGGCGAACCTTCTTCGGCTATCTTGGCTACCAGGAGCTTGGGATGGGCA
GGCATTATGGTCCGAAATTAATGGGTAGATGGAGGCAAGCCACTGCTGAAAATTTCCACTCATCTGGT
TTCTACAGTGTACTCAGGATCAGCATTTACATAATTTTTTCCAGTACTGTGAGAAAACCGAATCTGGA
GCCAAGCCTTAGGAAACGAACCTGTAAGTACCTTAAGAGTCTGCATGCGATGGAAGGCCACGTGATGA
TCGCCTCTTGCCCACTATCCTAAACCAGCTGTTCCGAGTCTACCAGAGCCACACAGGAAGAAGTCGC
GGTTAACGTGACTCGGGTCATTATTCATGTGGTTGCCAGTGCCATGAGGAAGGATTGGAGAGCCACTTG
AGGTATATGTTAAGTACGCGTATAAGGCTGAGCCATATGTTGCCTCTGAATACAAGACAGTGCATGAAG
AACTGACCAAAATCCATGACCACGATTCTCAAGCCTTCTGCCGATTTCTCACCAGCAACAACTACTGAA
GTACTCATGGTTTTCTTTGATGTACTGATCAAATCTATGGCTCAGCATTGATAGAGAACTCCAAAGTT
AAGTTGCTGCGAAACCAGAGATTTCTGCATCCTATCATCATGCAGTGGAAACCGTTGTAATATGCTGA
TGCCACACATCACTCAGAAGTTTCGAGATAATCCAGAGGCATCTAAGAACGCGAATCATAGCCTTGCTGT
CTTCATCAAGAGATGTTTACCTTCATGGACAGGGGCTTTGTCTTCAAGCAGATCAACAACACTACATTAGC
TGTTTTGCTCCTGGAGACCCAAAGACCCTCTTTGAATACAAGTTTGAATTTCTCCGTGTAGTGTGCAACC
ATGAACATTATATTCCGTTGAACCTTACCAATGCCATTTGAAAAGGCAGGATTCAAAGATACCAAGACCT
CCAGCTTGACTACTCATTAAACAGATGAGTTCTGCAGAAACCACTTCTTGGTGGGACTGTTACTGAGGGAG
GTGGGGACAGCCCTCCAGGAGTTCGGGAGGTCCGTCTGATCGCCATCAGTGTGCTCAAGAACCTGCTGA
TAAAGCATTCTTTGATGACAGATATGCTTCAAGGAGCCATCAGGCAAGGATAGCCACCCTCTACCTGCC
TCTGTTTGGTCTGCTGATTGAAAACGTCCAGCGGATCAATGTGAGGGATGTGTCACCCTTCCCTGTGAAC
GCGGGCATGACTGTGAAGGATGAATCCCTGGCTCTACCAGCTGTGAATCCGCTGGTGACCCGCAGAAGG
GAAGCACCTGGACAACAGCCTGCACAAGGACCTGCTGGGCGCCATCTCCGGCATTGGTAACGCTCCATG
CTCTTGTGGGCTTCTCTCCACCATCACTCTGAAAGTGTCTTGGAGCCAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

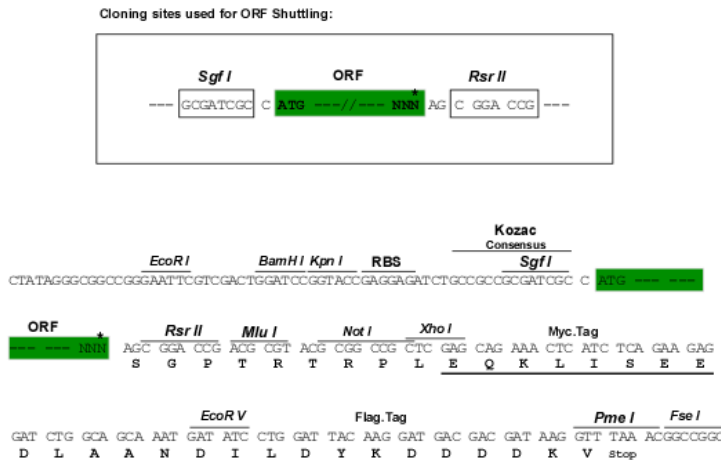
Protein Sequence: >RC226373 representing NM_001130050
 Red=Cloning site Green=Tags(s)

MQADKCR TSSRSVKELVIESPLQYKDAAQGEVEAESPGVPAPKPKLIEPLDYENVIVQKKTQILNDCLR
 EMLLPYDDFQTAILRRQGRYICSTVPAKAEQSLFVTECIKTYNSDWHLVNYKYEDYSGEFRQLPNK
 VVKLDKLPVHVVEVDEEVDKDEDAASLGSQGGITKHGWLKGNMNSAISVTMRSFKRRFFHLIQLGDGS
 YNLFYKDEKISKEPKGSIFLDSCMGVVQNNKVRRAFELKMQDKSSYLLAADSEVEMEEWITILNKILQ
 LNFEAAMQEKRNGDSHEDDEQSKLESGSGLDSYLPKLSAREAEIKLSESRVKLFYLDPAQKLDLFS
 SAEPEVKSFEKFGKRIILVKCNLDFNLQCCVAENEEGPTTNVEPFFVTLSLFDIKYNRKISADFHVDLN
 HFSVRQMLATTSPALMNGSGQSPSVLKGILHEAMQYPKQGFISVTCPPHDI FLVARIEKVLQGSITHCA
 EPYMKSSDSSKVAQKVLKNAKQACQRLGQYRMPFAWAARTL FKDASGNLDKNARFSAIYRQDSNKL SDD
 MLKLLADFRKPEKMAKLPVILGNL DITIDNVSSDFPNYVNSSYIPTKQFETCSKPTITFEVEEFVPCIPK
 HTQPYTIYTNHLYVYPKYLKYDSQKSF AKARNIAICIEFKDSDEEDSQPLKCIYGRPGPVFTRSAFAAV
 LHHHQNPFEYDEIKIELPTQLHEKHLLLTFFHVSCDNSKSGSTKKRDVVETQVGYSWLPLLDKGRVVS
 EQHIPVSANLPSGYLGYQELGMGRHYGPEIKWVDGGKPLLKISTHLVSTVYTQDQHLHNFQYCQKTESG
 AQALGNELVKYLKSLHAMEGHVMI AFLPTILNQLFRVLTRATQEEVAVNVTRVI IHVVAQCHEEGLESHL
 RSYVYKAYKAEPYVASEYKTVHEELTKSMTTILKPSADFLT SNKLLKYSWFFFDVLIKSMAQHLIENSKV
 KLLRNQRF PASYHHAVETVVNMLMPHITQKFRDNPEASKNANHSLAVFIKRCFTFMDRGFVFKQINNYIS
 CFAPGDPKTLFEYKFEFLRVVNCHEHYIPLNLPMPFGKGRIQRYQDLQLDYSLTDEF CRNHFLVGLLLRE
 VGTALQEFREVRLIAISVLKLLIKHSFDDRYASRSHQARIATLYLPLFGLLIENVRINVRDVSFPFVN
 AGMTVKDESLALPAVNPLVTPQKGSTLDNSLHKDLLGAISGIGNAPCSCGLLSTITLKVSWSQ

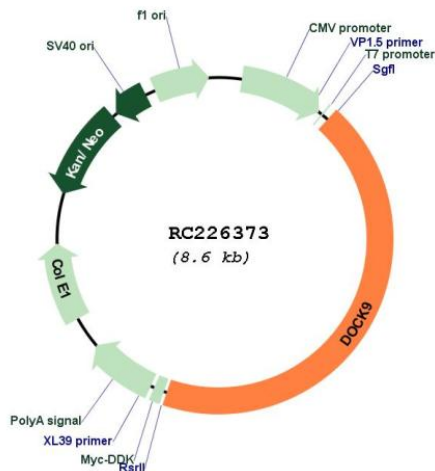
SGP TRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001130050

ORF Size: 3759 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).

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_001130050.2](#)

RefSeq ORF: 3762 bp

Locus ID: 23348

UniProt ID: [Q9BZ29](#)

Cytogenetics: 13q32.3

MW: 142.5 kDa

Gene Summary: Guanine nucleotide-exchange factor (GEF) that activates CDC42 by exchanging bound GDP for free GTP. Overexpression induces filopodia formation.[UniProtKB/Swiss-Prot Function]