OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC231497

DOCK8 (NM_001193536) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOCK8 (NM_001193536) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DOCK8
Synonyms:	HEL-205; MRD2; ZIR8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC231497 representing NM_001193536
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACACACCTGAACAGCCTGGATGTGCAGCTTGCCCAGGAGCTCGGGGACTTCACTGATGACGACTTGG
ACGTGGTGTTCACGCCAAAGGAATGTAGGACTTTGCAGCCCTCTTTGCCGGAGGAAGGGGTTGAACTGGA
CCCTCATGTCAGGGACTGTGTTCAGACCTACATCCGTGAGTGGCTAATCGTGAACCGGAAAAACCAAGGA
AGTCCAGAAATCTGTGGCTTTAAAAAGACTGGATCTCGAAAAGATTTTCACAAGACGCTTCCGAAACAGA
CGTTTGAGTCGGAAACCTTGGAGTGCAGTGAACCCGCTGCTCAGGCAGGCCCCCGCCACTTAAACGTGCT
GTGCGACGTGTCTGGGAAAGGCCCCGTCACTGCCTGTGACTTTGACCTCCGCAGCCTGCAGCCTGACAAG
CGGCTAGAAAACCTCCTGCAGCAAGTGAGTGCCGAGGACTTTGAGAAGCAGAACGAGGAGGCCCGGAGGA
CCAATAGGCAGGCCGAGCTCTTTGCCCTTTACCCATCAGTGGACGAGGAGGATGCTGTGGAAATACGTCC
AGTACCAGAATGTCCCAAGGAACACCTGGGCAACAGAATATTGGTCAAGTTGCTGACCTTGAAGTTCGAG
ATTGAAATTGAGCCCCTGTTTGCCAGCATTGCCCTCTACGATGTTAAAGAAAGGAAAAAGATCTCAGAAA
ATTTTCACTGTGACCTGAACTCTGACCAGTTCAAAGGATTTCTGCGAGCTCACACGCCTTCAGTGGCCGC
ATCAAGTCAGGCGAGATCTGCAGTCTTCTCAGTCACCTACCCGTCCTCAGACATCTACCTGGTAGTCAAG
ATTGAAAAAGTCCTGCAGCAGGGAGAGATTGGAGACTGTGCAGAGCCCTACACGGTTATCAAAGAAAGTG
ATGGTGGAAAGAGTAAAGAAAAGATTGAAAAACTAAAACTCCAAGCTGAATCCTTCTGCCAGCGTTTGGG
GAAATACCGGATGCCCTTTGCCTGGGCACCCATAAGCTTATCAAGCTTCTTCAGTGTCTCCACCCTTGAG
AGGGAGGTAACTGATGTGGACTCTGTGGTTGGGAGAAGCTCAGTGGGTGAACGGAGGACATTGGCCCAAT
CTAGAAGGCTTTCTGAAAGAGCCCTCTCCTTGGAGGAAAATGGGGTTGGATCCAACTTCAAAACCTCCAC
TCTGAGCGTTAGCATCTTTTTCAAGCAGGAAGGAGATCGCCTTAGCGATGAAGACTTATTCAAGTTTTTA
GCTGACTACAAAAGATCATCATCCTTACAGAGACGAGTCAAGTCAATTCCAGGCTTGCTAAGACTGGAGA
TTTCTACAGCTCCAGAGATCATCAATTGCTGTCTGACTCCTGAAATGCTGCCCGTGAAACCCTTTCCTGA
AAACCGGACACGCCCGCACAAAGAGATTTTGGAATTTCCAACACGAGAAGTATATGTCCCTCACACTGTG

View online »

TACAGAAACCTTCTCTATGTCTACCCACAGAGGCTGAACTTTGTAAACAAACTAGCATCAGCCCGGAACA
TTACAATAAAGATCCAGTTTATGTGTGGAGAAGATGCTAGCAATGCGATGCCGGTCATCTTTGGAAAGTC
CAGCGGGCCTGAATTTCTGCAGGAAGTGTACACAGCTGTTACATACCATAATAAGTCTCCTGACTTTTAT
GAAGAAGTGAAAATTAAGCTCCCCGCTAAGCTCACAGTAAATCACCACCTCCTGTTCACCTTCTACCATA
TCAGCTGTCAGCAGAAGCAAGGAGCCTCCGTGGAAACTCTCCTGGGATATTCATGGCTGCCAATTCTCTT
AAATGAACGTCTTCAAACTGGATCCTACTGTCTCCCAGTTGCCTTGGAAAAATTGCCACCCAACTACTCC
ATGCATTCTGCTGAGAAAGTCCCATTACAGAATCCTCCCATTAAGTGGGCTGAAGGACATAAGGGAGTAT
TTAATATTGAAGTGCAAGCTGTTTCTTCTGTACACACCCAGGACAACCACCTGGAGAAGTTCTTCACCCT
CTGCCACTCCCTGGAGAGCCAGGTGACCTTCCCCATCCGCGTGCTGGATCAGAAAATCAGCGAGATGGCG
CTGGAGCATGAGCTGAAGCTCAGCATCATCTGCCTGAACTCCTCCCGCCTGGAGCCGCTCGTGCTCTTCC
TGCACCTGGTGCTGGACAAGCTCTTCCAGCTGTCCGTGCAGCCCATGGTCATCGCTGGCCAGACAGCCAA
CTTCTCCCAGTTTGCCTTCGAGTCCGTGGTGGCCATCGCCAACAGTCTGCACAACAGCAAGGACCTGAGC
AAGGACCAGCATGGGAGGAACTGCCTGCTGGCTTCCTACGTGCACTACGTCTTCCGCCTGCCAGAGGTGC
AAAGGGATGTGCCCAAGTCAGACGCTCCCACTGCCCTCCTAGACCCTCGGAGCTACCACACGTATGGCCG
CACATCAGCTGCTGCTGTGAGTTCAAAGCTGCTGCAGGCCCGGGTGATGAGCAGCAGTAACCCAGACCTC
GCGGGGACACACTCCGCAGCAGACGAGGAAGTGAAGAACATCATGTCTTCAAAGATCGCCGATCGCAACT
GCAGCCGAATGTCTTACTATTGCTCTGGCAGTAGTGATGCTCCAAGTTCACCTGCAGCCCCAAGGCCAGC
CAGCAAAAAGCATTTCCATGAGGAGCTTGCCCTTCAGATGGTGGTCAGCACCGGAATGGTGAGAGAAACA
GTCTTCAAGTATGCCTGGTTCTTCTTTGAGCTTCTGGTGAAAAGCATGGCCCAGCACGTACATAACATGG
ACAAACGGGACAGTTTTCGGAGGACTCGTTTTTCTGACCGTTTCATGGATGACATAACTACTATTGTTAA
TGTGGTCACCTCGGAAATTGCAGCCCTTTTAGTAAAACCACAGAAGGAAAATGAACAGGCGGAAAAGATG
AACATCAGCCTGGCTTTCTTCTTGTATGACCTTCTCTCCCTCATGGATCGGGGCTTTGTGTTTAACCTCA
TCAGACATTATTGCAGCCAGCTGTCAGCCAAGCTCAGTAACCTTCCAACGCTCATTTCCATGAGGCTAGA
GTTCCTGAGAATCCTCTGTAGCCATGAGCATTACCTCAATCTGAACCTTTTTTTTATGAATGCTGATACT
GCTCCAACATCTCCTTGTCCTTCCATATCTTCCCAGAACTCAAGCTCCTGCTCCAGCTTCCAGGACCAGA
AGATCGCCAGCATGTTCGATCTGACTTCCGAGTACCGCCAGCAGCACTTCCTCACCGGGCTCCTCTTCAC
AGAACTGGCTGCTGCCCTGGATGCCGAAGGGGAAGGAATCAGCAAAGTACAAAGGAAAGCTGTCAGTGCA
ATTCACAGCCTGCTAAGTTCTCACGACCTGGACCCACGCTGTGTCAAACCAGAGGTGAAGGTCAAAATCG
CCGCCCTTTACCTACCTTTAGTTGGCATCATTTTGGATGCTTTGCCACAGCTCTGTGACTTTACAGTTGC
AGATACTCGCAGATACCGCACCAGTGGCTCGGATGAAGAACAAGAAGGAGCCGGTGCCATTAACCAGAAT
GTGGCTCTGGCCATAGCAGGGAATAATTTCAATTTGAAAACAAGTGGAATAGTGCTGTCTTCCTTGCCCT
ATAAGCAGTACAACATGCTGAACGCGGACACTACTCGCAACCTCATGATCTGCTTCCTCTGGATCATGAA
AAATGCTGATCAGAGCCTCATTAGGAAGTGGATTGCTGACCTGCCATCAACGCAGCTCAACAGGATTTTA
GATCTACTTTTCATCTGTGTGTTATGTTTTGAGTATAAGGGAAAACAGAGTTCTGACAAAGTCAGTACCC
AAGTCCTGCAGAAGTCAAGGGATGTCAAGGCCCGGCTGGAAGAGGCTTTGCTCCGTGGGGAAGGGGCCAG
AGGGGAGATGATGCGCCGCCGGGCTCCAGGGAACGACCGATTTCCAGGCCTAAATGAAAATTTGAGATGG
AAGAAAGAGCAGACACATTGGCGGCAAGCTAATGAGAAGCTAGATAAAACAAAGGCCGAGTTAGATCAAG
AAGCCTTGATCAGTGGCAATCTGGCTACAGAAGCACATTTAATCATCCTGGATATGCAGGAAAACATTAT
CCAGGCGAGCTCGGCTCTGGACTGTAAAGACAGCCTGCTGGGAGGTGTTCTGAGGGTGCTGGTGAATTCT
CTGAACTGTGATCAGAGTACCACCTACCTGACTCACTGCTTTGCAACACTCCGTGCTCTCATCGCCAAGT
TTGGAGACTTACTCTTCGAAGAGGAGGTGGAACAGTGTTTCGACCTATGTCACCAAGTCCTGCACCACTG
CAGCAGCAGCATGGATGTCACCCGGAGCCAAGCCTGTGCCACCCTTTACCTCCTCATGAGGTTCAGTTTT
GGAGCCACCAGTAATTTTGCAAGAGTAAAGATGCAAGTAACCATGTCCCTGGCATCTTTGGTGGGAAGAG
CACCAGACTTTAATGAAGAGCACCTGAGAAGATCCTTGAGGACAATTTTGGCCTATTCAGAAGAGGACAC
AGCCATGCAGATGACTCCTTTTCCCACCCAGGTGGAGGAACTTCTCTGTAATCTGAATAGCATCTTATAT
GACACAGTGAAAATGAGGGAATTTCAGGAAGATCCTGAGATGCTTATGGATCTCATGTACAGAATTGCCA
AGAGTTACCAGGCATCTCCTGATCTGCGGCTGACCTGGCTCCAGAACATGGCAGAGAAACACACCAAGAA
GAAGTGCTACACGGAGGCTGCCATGTGCCTGGTGCACGCCGCTGCGTTAGTGGCTGAGTATCTGAGCATG
CTGGAGGACCACAGCTACCTGCCCGTGGGCAGTGTCAGCTTCCAGAATATTTCTTCCAATGTGCTGGAGG
AGTCTGTGGTCTCTGAGGACACCCTGTCACCTGACGAGGATGGGGTGTGCGCAGGCCAGTACTTCACCGA
GAGTGGCCTGGTAGGCCTCCTGGAGCAGGCCGCGGAGCTCTTCAGCACGGGAGGCTTATATGAGACAGTT
AATGAGGTCTACAAGCTGGTCATCCCCATCCTAGAAGCGCATCGAGAATTCCGGAAGCTGACACTCACTC

ACAGCAAGCTGCAGAGAGCCTTCGACAGCATCGTTAACAAGGATCATAAGAGAATGTTTGGAACCTACTT
CCGAGTTGGTTTCTTTGGATCCAAATTTGGGGATTTGGATGAACAGGAATTTGTCTACAAAGAGCCTGCA
ATTACCAAGCTTCCTGAGATCTCACATAGACTAGAGGCATTTTATGGTCAATGTTTTGGTGCAGAATTTG
TGGAAGTGATTAAAGACTCCACTCCTGTGGACAAAACCAAGTTGGATCCTAACAAGGCCTACATACAGAT
CACTTTTGTGGAGCCCTACTTTGATGAGTATGAGATGAAAGACAGGGTCACATACTTTGAGAAGAATTTC
AACCTCCGGAGGTTCATGTACACCACCCCGTTCACCCTGGAGGGGCGGCCTCGGGGAGAGCTGCATGAGC
AGTACAGAAGGAACACAGTCCTGACCACTATGCACGCCTTCCCCTTCATCAAGACCAGGATCAGCGTCAT
CCAGAAGGAGGAGTTTGTTTTGACACCGATTGAAGTTGCCATTGAAGACATGAAGAAGAAGACCCTGCAG
TTAGCAGTTGCCATTAACCAGGAGCCGCCTGATGCAAAGATGCTTCAGATGGTGCTGCAAGGCTCTGTGG
GAGCTACTGTAAATCAGGGACCACTGGAAGTAGCCCAAGTGTTTTTGGCTGAAATTCCTGCTGATCCAAA
ACTCTATCGACATCACAACAAGTTGAGGTTATGCTTTAAGGAATTCATCATGAGATGTGGTGAAGCTGTA
GAGAAAAACAAGCGTCTCATCACGGCAGACCAGAGGGAATATCAGCAGGAACTCAAAAAGAACTATAACA
AGCTAAAAGAGAACCTCAGGCCAATGATCGAGCGGAAAATTCCAGAACTGTACAAGCCAATATTCAGAGT
TGAGAGTCAAAAGAGGGACTCCTTCCACAGATCTAGTTTCAGGAAATGTGAAACCCAGTTGTCACAGGGC
AGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231497 representing NM_001193536
Red=Cloning site Green=Tags(s)

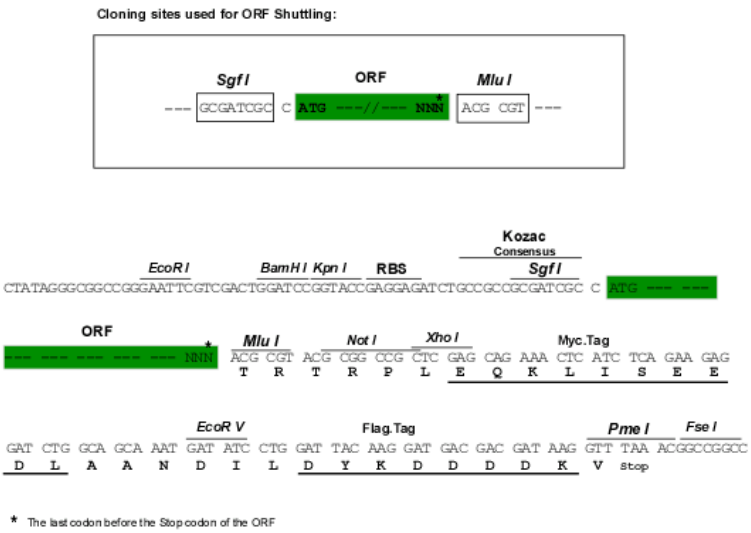
MTHLNSLDVQLAQELGDFTDDDLDVVFTPKECRTLQPSLPEEGVELDPHVRDCVQTYIREWLIVNRKNQG
SPEICGFKKTGSRKDFHKTLPKQTFESETLECSEPAAQAGPRHLNVLCDVSGKGPVTACDFDLRSLQPDK
RLENLLQQVSAEDFEKQNEEARRTNRQAELFALYPSVDEEDAVEIRPVPECPKEHLGNRILVKLLTLKFE
IEIEPLFASIALYDVKERKKISENFHCDLNSDQFKGFLRAHTPSVAASSQARSAVFSVTYPSSDIYLVVK
IEKVLQQGEIGDCAEPYTVIKESDGGKSKEKIEKLKLQAESFCQRLGKYRMPFAWAPISLSSFFSVSTLE
REVTDVDSVVGRSSVGERRTLAQSRRLSERALSLEENGVGSNFKTSTLSVSIFFKQEGDRLSDEDLFKFL
ADYKRSSSLQRRVKSIPGLLRLEISTAPEIINCCLTPEMLPVKPFPENRTRPHKEILEFPTREVYVPHTV
YRNLLYVYPQRLNFVNKLASARNITIKIQFMCGEDASNAMPVIFGKSSGPEFLQEVYTAVTYHNKSPDFY
EEVKIKLPAKLTVNHHLLFTFYHISCQQKQGASVETLLGYSWLPILLNERLQTGSYCLPVALEKLPPNYS
MHSAEKVPLQNPPIKWAEGHKGVFNIEVQAVSSVHTQDNHLEKFFTLCHSLESQVTFPIRVLDQKISEMA
LEHELKLSIICLNSSRLEPLVLFLHLVLDKLFQLSVQPMVIAGQTANFSQFAFESVVAIANSLHNSKDLS
KDQHGRNCLLASYVHYVFRLPEVQRDVPKSDAPTALLDPRSYHTYGRTSAAAVSSKLLQARVMSSSNPDL
AGTHSAADEEVKNIMSSKIADRNCSRMSYYCSGSSDAPSSPAAPRPASKKHFHEELALQMVVSTGMVRET
VFKYAWFFFELLVKSMAQHVHNMDKRDSFRRTRFSDRFMDDITTIVNVVTSEIAALLVKPQKENEQAEKM
NISLAFFLYDLLSLMDRGFVFNLIRHYCSQLSAKLSNLPTLISMRLEFLRILCSHEHYLNLNLFFMNADT
APTSPCPSISSQNSSSCSSFQDQKIASMFDLTSEYRQQHFLTGLLFTELAAALDAEGEGISKVQRKAVSA
IHSLLSSHDLDPRCVKPEVKVKIAALYLPLVGIILDALPQLCDFTVADTRRYRTSGSDEEQEGAGAINQN
VALAIAGNNFNLKTSGIVLSSLPYKQYNMLNADTTRNLMICFLWIMKNADQSLIRKWIADLPSTQLNRIL
DLLFICVLCFEYKGKQSSDKVSTQVLQKSRDVKARLEEALLRGEGARGEMMRRRAPGNDRFPGLNENLRW
KKEQTHWRQANEKLDKTKAELDQEALISGNLATEAHLIILDMQENIIQASSALDCKDSLLGGVLRVLVNS
LNCDQSTTYLTHCFATLRALIAKFGDLLFEEEVEQCFDLCHQVLHHCSSSMDVTRSQACATLYLLMRFSF
GATSNFARVKMQVTMSLASLVGRAPDFNEEHLRRSLRTILAYSEEDTAMQMTPFPTQVEELLCNLNSILY
DTVKMREFQEDPEMLMDLMYRIAKSYQASPDLRLTWLQNMAEKHTKKKCYTEAAMCLVHAAALVAEYLSM
LEDHSYLPVGSVSFQNISSNVLEESVVSEDTLSPDEDGVCAGQYFTESGLVGLLEQAAELFSTGGLYETV
NEVYKLVIPILEAHREFRKLTLTHSKLQRAFDSIVNKDHKRMFGTYFRVGFFGSKFGDLDEQEFVYKEPA
ITKLPEISHRLEAFYGQCFGAEFVEVIKDSTPVDKTKLDPNKAYIQITFVEPYFDEYEMKDRVTYFEKNF
NLRRFMYTTPFTLEGRPRGELHEQYRRNTVLTTMHAFPFIKTRISVIQKEEFVLTPIEVAIEDMKKKTLQ
LAVAINQEPPDAKMLQMVLQGSVGATVNQGPLEVAQVFLAEIPADPKLYRHHNKLRLCFKEFIMRCGEAV
EKNKRLITADQREYQQELKKNYNKLKENLRPMIERKIPELYKPIFRVESQKRDSFHRSSFRKCETQLSQG
S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3137_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001193536

ORF Size: 6093 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_001193536.1, NP_001180465.1

RefSeq Size: 7255 bp

RefSeq ORF: 6096 bp

Locus ID: 81704

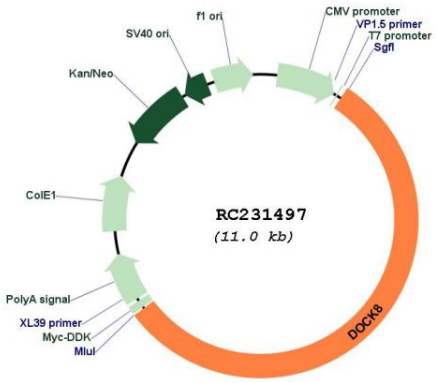
UniProt ID: Q8NF50

Cytogenetics: 9p24.3

MW: 230.9 kDa

Gene Summary: This gene encodes a member of the DOCK180 family of guanine nucleotide exchange factors. Guanine nucleotide exchange factors interact with Rho GTPases and are components of intracellular signaling networks. Mutations in this gene result in the autosomal recessive form of the hyper-IgE syndrome. Alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Jun 2010]

Product images:



Circular map for RC231497