

## Product datasheet for RC229462

### DOCK8 (NM\_203447) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DOCK8 (NM_203447) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DOCK8
Synonyms:	HEL-205; MRD2; ZIR8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC229462 representing NM_203447 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACTCTGCCGAGCGCAGAGCGCCGCGGTTTCGCGCTCAAGATCAACAGGTATTCTTCAGCGGAAA  
TAAGGAAACAGTTTACTCTCCACCAAACCTTGGCCAGTACCATCGACAGAGCATAAGTACCTCTGGCTT  
CCCCTCTCTTCACTACCTCAGTTTTATGACCCTGTGGAGCCAGTGGACTTTGAAGGACTTCTGATGACA  
CACCTGAACAGCCTGGATGTGCAGCTTGGCCAGGAGCTCGGGGACTTCACTGATGACGACTTGGAGCTGG  
TGTTACACGCAAAGGAATGTAGGACTTTGCAGCCCTCTTGGCCGAGGAAGGGTTGAACTGGACCCCTCA  
TGTGAGGACTGTGTTACAGCTACATCCGTGAGTGGCTAATCGTGAACCGGAAAAACCAAGGAAGTCCA  
GAAATCTGTGGCTTTAAAAAGACTGGATCTCGAAAAGATTTTCAAGACGCTTCCGAAACAGACGTTTG  
AGTCGAAACCTTGGAGTGCAGTGAACCCGCTGCTCAGGCAGGCCCGCCACTTAAACGTGCTGTGCGA  
CGTGTCTGGGAAAGGCCCGTCACTGCCTGTGACTTTGACCTCCGACGCTGCAGCCTGACAAGCGGCTA  
GAAAACCTCCTGCAGCAAGTGAAGTGCAGGACTTTGAGAAGCAGAACGAGGAGGCCCGGAGGACCAATA  
GGCAGGCCGAGCTCTTGGCCCTTACCCATCAGTGGACGAGGAGGATGCTGTGAAATACGTCCAGTACC  
AGAATGTCCAAAGGAACACCTGGGCAACAGAATATTGGTCAAGTTGCTGACCTTGAAGTTCGAGATTGAA  
ATTGAGCCCTGTTTGCAGCATTGCCCTCTACGATGTTAAAGAAAGGAAAAAGATCTCAGAAAAATTTTC  
ACTGTGACCTGAACTCTGACCAGTTCAAAGGATTTCTGCGAGCTCACACGCCCTCAGTGGCCGCATCAAG  
TCAGGCGAGATCTGCAGTCTTCTCAGTACCTACCCGCTCCTCAGACATCTACCTGGTAGTCAAGATTGAA  
AAAGTCTGCAGCAGGAGAGATTGGAGACTGTGCAGAGCCCTACACGGTTATCAAAGAAAGTGTGGTG  
GAAAGAGTAAAGAAAAGATTGAAAACTAAAACCTCAAAGTGAATCCTTCTGCCAGCGTTTGGGAAATA  
CCGGATGCCCTTGCCTGGGCACCCATAAGCTTATCAAGCTTCTCAATGTCTCCACCCTTGAGAGGGAG  
GTAAGTGTGGACTCTGTGGTTGGGAGAAGCTCAGTGGTGAACGGAGGACATTGGCCCAATCTAGAA  
GGCTTTCTGAAAGAGCCCTCTCCTTGGAGGAAAATGGGGTTGGATCCAACCTCAAACCTCACTCTGAG  
CGTTAGCAGCTTTTTCAAGCAGGAAGGAGATCGCCTTAGCGATGAAGACTTATTCAAGTTTTTAGCTGAC  
TACAAAAGATCATCATCCTTACAGAGACGAGTCAAGTCAATTCAGGCTTGTAAAGACTGGAGATTCTA



[View online >](#)

CAGCTCCAGAGATCATCAATTGCTGTCTGACTCCTGAAATGCTGCCCGTAAAACCCCTTCTGAAAACCG  
 GACACGCCCGCACAAAGAGATTTTGAATTTCCAACACGAGAAGTATATGTCCTTCCACTGTGTACAGA  
 AACCTTCTCTATGTCTACCCACAGAGGCTGAACTTTGTAACAACTAGCATCAGCCCGAACATTACAA  
 TAAAGATCCAGTTTATGTGTGGAGAAGTGTAGCAATGCGATGCCGGTCATCTTTGGAAAATCCAGCGG  
 GCCTGAATTTCTGCAGGAAGTGTACACAGCTGTTACATACCATAATAAGTCTCCTGACTTTTATGAAGAA  
 GTGAAAATAAGCTCCCCGCTAAGCTCACAGTAAATCACCACCTCCTGTTACCTTCTACCATACAGCT  
 GTGACGAGAAGCAAGGAGCCTCCGTGGAACCTCCTGGGATATTCATGGCTGCCAATTCCTTAAATGA  
 AGTCTTCAAACCTGGATCCTACTGTCTCCAGTTGCCCTTGAAAAAATTGCCACCAACTACTCCATGCAT  
 TCTGCTGAGAAAAGTCCCATTACAGAATCCTCCATTAAAGTGGGCTGAAGGACATAAGGGAGTATTTAATA  
 TTGAAGTGCAAGCTGTTTCTTGTACACACCCAGGACAACCACCTGGAGAAGTCTTACCCTCTGCCA  
 CTCCTGGAGAGCCAGGTGACCTTCCCATCCGCGTGTGGATCAGAAAAACAGCGAGATGGCGCTGGAG  
 CATGAGCTGAAGCTCAGCATCATCTGCCTGAACTCCTCCGCTGGAGCCGCTCGTGTCTTCTGCACC  
 TGGTGTGGACAAGCTCTCCAGCTGTCCGTGCAGCCATGGTCATCGCTGGCCAGACAGCAACTTCTC  
 CCAGTTTGCCTTCGAGTCCGTGGTGGCCATCGCCAACAGTCTGCACAACAGCAAGGACCTGAGCAAGGAC  
 CAGCATGGGAGGAACTGCCTGTGGCTTCTACGTGCACTACGTCTTCCGCTGCCAGAGGTGCAAAGGG  
 ATGTGCCCAAGTCAAGGCTCCCACTGCCTCCTAGACCTCGGAGCTACCACAGTATGGCCGCACATC  
 AGCTGCTGCTGTGAGTTCAAAGCTGCTGCAGGCCCGGGTATGAGCAGCAGTAACCCAGACCTCGCGGGG  
 ACACACTCCGAGCAGACGAGGAAGTGAAGAACATCATGTCTTCAAAGATCGCCGATCGCAACTGCAGCC  
 GAATGTCTTACTATTGCTCTGGCAGTAGTATGCTCCAAGTTCACCTGCAGCCCCAAGGCCAGCCAGCAA  
 AAAGCATTTCCATGAGGAGCTTGCCCTTCCAGATGGTGGTGCAGACCGGAATGGTGAGAGAAAACAGTCTT  
 AAGTATGCCTGGTCTTCTTTGAGCTTCTGGTAAAAGCATGGCCAGCAGTACATAACATGGACAAAAC  
 GGGACAGTTTTCCGAGGACTCGTTTTCTGACCGTTTTCATGGATGACATAACTACTATTGTTAATGTGGT  
 CACCTCGGAAATGCAGCCCTTTAGTAAAACACAGAAGGAAAATGAACAGGCGGAAAAGTGAACATC  
 AGCTGGCTTTCTTGTATGACCTTCTCCTCATGGATCGGGCTTTGTGTTTAACTCATACAGAC  
 ATTATTGCAGCCAGCTGTGAGCCAAAGCTCAGTAACTTCCAACGCTCATTTCATGAGGCTAGAGTCTCT  
 GAGAATCCTCTGTAGCCATGAGCATTACCTCAATCTGAACCTTTTTTTTTATGAATGCTGATACTGCTCCA  
 ACATCTCCTTGTCTTCCATATCTTCCAGAATCAAGCTCCTGCTCCAGCTTCCAGGACCAGAAGATCG  
 CCAGCATGTTTCGATCTGACTTCCGAGTACCGCCAGCAGCACTTCTCACCAGGCTCCTTTCACAGAAT  
 GGCTGCTGCCCTGGATGCCGAAGGGGAAGGAATCAGCAAAGTACAAGGAAAAGCTGTCAGTGCAATTCAC  
 AGCCTGCTAAGTCTCACGACCTGGACCCAGCTGTGTCAAACAGAGGTGAAGGTCAAATCGCCGCC  
 TTTACCTACCTTTAGTTGGCATCATTTTGGATGCTTTGCCACAGCTCTGTGACTTTACAGTTGCAGATAC  
 TCGCAGATACCGACCAAGTGGCTCGGATGAAGAACAAGAAGGAGCCGGTGCATTAAACCAGAAATGTGGCT  
 CTGGCCATAGCAGGGAATAATTTCAATTTGAAAACAAGTGAATAGTGTGCTTCTCCTTGCCCTATAAGC  
 AGTACAACATGCTGAACGCGGACACTACTCGAACCTCATGATCTGCTTCTCTGGATCATGAAAAATGC  
 TGATCAGAGCCTCATTAGGAAGTGGATTGCTGACCTGCCATCAACGCAGCTCAACAGGATTTTAGATCTA  
 CTTTTATCTGTGTGTTATGTTTTGAGTATAAGGGAAAACAGAGTTCTGACAAAAGTCAGTACCCAAGTCC  
 TGCAGAAGTCAAGGGATGTCAAGGCCGGCTGGAAGAGGCTTTGCTCCGTGGGGAAGGGGCCAGAGGGGA  
 GATGATGCGCCCGGGCTCCAGGGAACACCGATTTCCAGGCCATAATGAAAATTTGAGATGGAAGAAA  
 GAGCAGACACATTGGCGCAAGCTAATGAGAAGCTAGATAAAACAAAGGCCGAGTTAGATCAAGAAGCCT  
 TGATCAGTGGCAATCTGGCTACAGAAGCACATTTAATCATCCTGGATATGCAGGAAAACATTATCCAGGC  
 GAGCTCGGCTCTGGACTGTAAAGACAGCCTGCTGGGAGGTGTTCTGAGGGTGTGGTGAATTCCTGAAC  
 TGTGATCAGAGTACCACCTACCTGACTACTGCTTTGCAACACTCCGTGCTCTCATCGCCAAGTTTGGAG  
 ACTTACTCTTGAAGAGGAGGTGGAACAGTGTTCGACCTATGTCACCAAGTCTGCACCACTGCAGCAG  
 CAGCATGGATGTACCCGGAGCCAAGCCTGTGCCACCCTTACCTCCTCATGAGGTTTCAAGTTTGGAGCC  
 ACCAGTAAATTTGCAAGAGTAAAGATGCAAGTAAACATGTCCTGGCATCTTTGGTGGGAAGAGCACCAG  
 ACTTTAATGAAGAGCACCTGAGAAGATCCTTGAAGACAATTTGGCCTATTCAGAAGAGGACACAGCCAT  
 GCAGATGACTCCTTTCCACCCAGGTGGAGAACTTCTCTGTAATCTGAATAGCATCTTATATGACACA  
 GTGAAAATGAGGGAAATTCAGGAAGATCCTGAGATGCTTATGGATCTCATGTACAGAATTGCCAAGAGTT  
 ACCAGGCATCTCCTGATCTGCGGCTGACCTGGCTCCAGAACATGGCAGAGAAAACACCAAGAAGAAGTG  
 CTACACGGAGGCTGCCATGTGCCTGGTGCACGCCGCTGCGTTAGTGGCTGAGTATCTGAGCATGCTGGAG  
 GACCACAGCTACCTGCCCGTGGGAGTGTGAGCTTCCAGAATAATTTCTTCAATGTGCTGGAGGAGTCTG  
 TGGTCTCTGAGGACACCTGTCACTGACGAGGATGGGGTGTGCGCAGGCCAGTACTTACCAGAGAGTGG

CCTGGTAGGCCTCCTGGAGCAGGCCGCGGAGCTCTTCAGCACGGGAGGCTTATATGAGACAGTTAATGAG  
GTCTACAAGCTGGTCATCCCCATCCTAGAAGCGCATCGAGAATCCGGAAGCTGACACTCACTCACAGCA  
AGCTGCAGAGAGCCTTCGACAGCATCGTTAAACAAGGATCATAAGAGAATGTTTGGAACTACTTCCGAGT  
TGGTTTCTTTGGATCAAATTTGGGGATTTGGATGAACAGGAGTTTGTCTACAAAGAGCCTGCAATTACC  
AAGCTTCCTGAGATCTCACATAGACTAGAGGCATTTTATGGTCAATGTTTGGTGCAGAATTTGTGGAAG  
TGATTAAGACTCCACTCCTGTGGACAAAACCAAGTTGGATCCTAACAGGCCTACATACAGATCACTTT  
TGTGGAGCCCTACTTTGATGAGTATGAGATGAAAGACAGGGTCACATACTTTGAGAAGAATTTCAACCTC  
CGGAGGTTTCATGTACACCACCCGTTACCCCTGGAGGGGCGGCCTCGGGGAGAGCTGCATGAGCAGTACA  
GAAGGAACACAGTCCCTGACCACTATGCACGCCTTCCCCTACATCAAGACCAGGATCAGCGTCATCCAGAA  
GGAGGAGTTTGTGTTTACACCGATTGAAGTTGCCATTGAAGACATGAAGAAGAAGACCCTGCAGTTAGCA  
GTTGCCATTAACCAGGAGCCGCTGATGCAAAGATGCTTCAGATGGTGTGCAAGGCTCTGTGGGAGCTA  
CTGTAATCAGGGACCACTGGAAGTAGCCCAAGTGTGTTTGGCTGAAATTCCTGCTGATCCAAAACCTCTA  
TCGACATCACAACAAGTTGAGGTTATGCTTTAAGGAATTCATCATGAGATGTGGTGAAGCTGTAGAGAAA  
ACAAGCGTCTCATCACGGCAGACCAGAGGGAATATCAGCAGGAACCTAAAAAGAACTATAACAAGCTAA  
AAGAGAACCTCAGGCAATGATCGAGCGGAAAATTCAGAAGTGTACAAGCCAATATTCAGAGTTGAGAG  
TCAAAAGAGGGACTCCTCCACAGATCTAGTTTCAGGAAATGTGAAACCCAGTTGTCACAGGGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC229462 representing NM\_203447  
 Red=Cloning site Green=Tags(s)

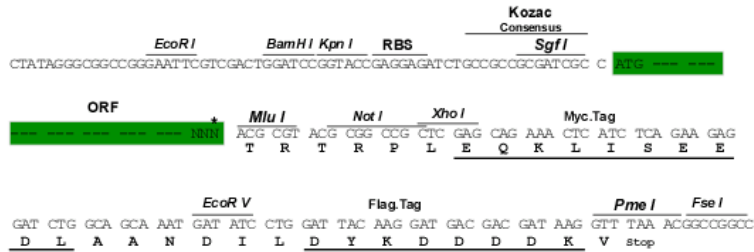
MATLPSAERRAFALKINRYSSAEIRKQFTLPPNLGQYHRQSIISTSGFPSLQLPQFYDPVEPVDVEGLLMT  
 HLNSLDVQLAQELGDFDDDLDDVVFTPKECRTLQPSLPEEGVELDPHVRCVQTYIREWLIVNRKNQGSP  
 EICGFKKTGSRKDFHKTLPKQTFESETLECSAPAAQAGPRHLNVLCDVSGKGPVTACDFDLRSLQPDKRL  
 ENLLQQVSAEDFEKQNEEARRTNRQALFALYPSVDEEDAVEIRPVPECPKEHLGNRILVKLLTLKFEIE  
 IEPLFASIALYDVKERKKISENFHCDLNSDQFKGFLRAHTPSVAASSQARSQAVFSVYTPSSDIYLVVKIE  
 KVLQQGEIGDCAEPYTVIKESDGGKSKEKIEKLLQAESEFCQRLGKYRMPFAPAWAPISLSSFFNVSTLERE  
 VTDVDSVVGSRSSVGERRTLAQSRRLSERALSLEENGVSFNKSTLSVSSFFKQEGDRLSDEDLFKFLAD  
 YKRSSSLQRRVKSIPGLLRLEISTAPEIINCLTPEMLPVKPFENRTRPHKEILEFPTREVYVPHTVYR  
 NLLVYVYQRLNFNKLASARNITIKIQMCGEDASNAMPVIFGKSSGPEFLQEVYAVTYHNKSPDFYEE  
 VKIKLPAKLTVNHHLLFTFYHISCQQKQASVETLLGYSWLPILLNERLQTGSYCLPVALEKLPNYSMH  
 SAEKVPLQNPPIKWAEGHKGVNIEVQAVSSVHTQDNHLEKFFTLCHSLESQVTFPIRVLDQKISEMALE  
 HELKLSIICLNSSRLEPLVFLHLVLDKLFQLSVQPMVIAGQTANFSQFAFESVVAIANSLHNSKDLKSKD  
 QHGRNCLLASVYHYVFRLEPEVQRDVPKSGAPTALLDPRS YHTYGRTSAAA VSSKLLQARVMSSSNPDLA  
 GTHSAADEEVKNIMSSKIADRNC SRMSYCSGSSDAPSSPAAPRASKKHFEELALQMVVSTGMVRET  
 VFKYAWFFELLVKSMAQHVHMDKRDSEFRTRFRSDFRMDDDITIVNVVTSEIAALLVKPQKENEQAEKMI  
 NISLAFFLYDLLSLMDRGVFNLRHYCSQLSAKLSNLPILSMRLEFLRILCSHEHYLNLLFFMNADTAP  
 TSPCPSISSQNSSSCSSFDQKIASMFDLTSEYRQQHFLTGLLFTELAALDAEGEGISKVQRKAVSAIH  
 SLLSSHLDPRCVKPEVKVIAALYLPLVGIILDALPQLCDFTVADTRRYRTSGSDEEQEGAGAINQNV  
 ALAIAGNNFNKLTSGIVLSSLPYKQYNMLNADTTRNLMICFLWIMKNADQSLIRKWIADLPSTQLNRILDL  
 LFIICVLCFEYKKGQSSDKVSTQVLQKSRDVKARLEEALLRGE GARGEMRRRAPGNDRFPGLNENLRWKK  
 EQTHWRQANEKLDKTKAELDQEALISGNLATEAHLIILDMQENIQASSALDCKDSSLGGVLRVLVNSLN  
 CDQSTTYLTHCFATLRALIAKFGDLLFEEVEQCDFLCHQVLHHCSSMDVTRSQAATLYLLMRFSGA  
 TSNFARVKMQVTMSLASLVGRAPDFNEEHLRSLRILAYSEEDTAMQMPFPTQVEELLNLSILYDT  
 VKMREFQEDPEMLMDL MYRIAKSYQASPDRLTWLQNM AEKHTKKKCYTEAMCLVHAAALVAEYLSMLE  
 DHSYLPVGSVSFQNISSNVLEESVVSSEDTLSPDEDGVCAGQYFTESGLVGLLEQAAELFSTGGLYETVNE  
 VYKLVIPILEAHREFRKLTLTHSKLQRAFDSIVNKDHKRMFGTYFRVGF GSKFGDLDEQEFVYKEPAIT  
 KLPEISHRLEAFYGCQGAEFVEVIKIDSTPVDKTKLDPNKAYIQITFVEPYFDEYEMKDRVTYFEKNFNL  
 RRFMYTTPFTLEGRPRGELHEQYRRNTVLTTMHAFYIKTRISVIQKEEFVLTPIEVAIEDMKKKTLQLA  
 VAINQEPDAKMLQMV LQGSV GATVNQGP LEVAQVFLAEIPADPKLYRHHNKLRLCFKEFIMRCGEAVEK  
 NKRLITADQREYQQELKKNYNKLENLRPMIERKIPELYKPIFRVESQKRDSFHRSSFRKCETQLSQGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

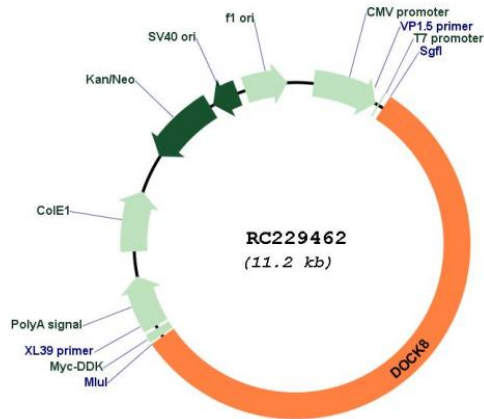
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



ACCN: NM\_203447  
 ORF Size: 6297 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_203447.3</a>, <a href="#">NP_982272.2</a></p>
<b>RefSeq ORF:</b>	<p>6300 bp</p>
<b>Locus ID:</b>	<p>81704</p>
<b>UniProt ID:</b>	<p><a href="#">Q8NF50</a></p>
<b>Cytogenetics:</b>	<p>9p24.3</p>
<b>MW:</b>	<p>238.3 kDa</p>
<b>Gene Summary:</b>	<p>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]</p>