

## Product datasheet for RC222789

### 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222789 representing NM_203447 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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TACAGAAACCTTCTCTATGTCTACCCACAGAGGCTGAACTTTGTAACAAACTAGCATCAGCCCGGAACA  
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**Protein Sequence:** >RC222789 representing NM\_203447  
 Red=Cloning site Green=Tags(s)

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 S

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3137\\_d03.zip](https://cdn.origene.com/chromatograms/mg3137_d03.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_203447

**ORF Size:** 6093 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:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

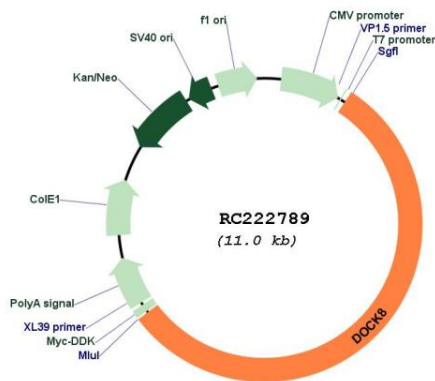
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

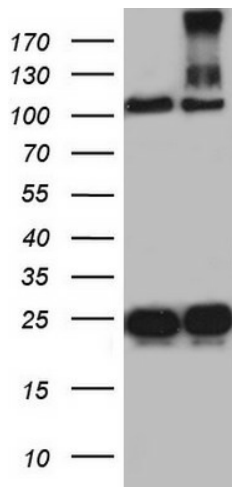
**RefSeq:** [NM\\_203447.1, NP\\_982272.1](#)  
**RefSeq Size:** 7257 bp  
**RefSeq ORF:** 6300 bp  
**Locus ID:** 81704  
**UniProt ID:** [Q8NF50](#)  
**Cytogenetics:** 9p24.3  
**MW:** 238.3 kDa

**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]

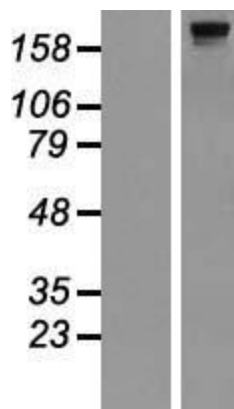
### Product images:



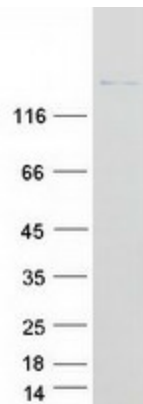
Circular map for RC222789



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DOCK8 (Cat# RC222789, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DOCK8(Cat# [TA803002]). Positive lysates [LY404295] (100ug) and [LC404295] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY404295]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222789 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DOCK8 protein (Cat# [TP322789]). The protein was produced from HEK293T cells transfected with DOCK8 cDNA clone (Cat# RC222789) using MegaTran 2.0 (Cat# [TT210002]).