

Product datasheet for **RC211198L1V**

DOCK2 (NM_004946) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	DOCK2 (NM_004946) Human Tagged ORF Clone Lentiviral Particle
Symbol:	DOCK2
Synonyms:	IMD40
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_004946
ORF Size:	5490 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211198).
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.
RefSeq:	NM_004946.1
RefSeq Size:	6050 bp
RefSeq ORF:	5493 bp
Locus ID:	1794
UniProt ID:	Q92608
Cytogenetics:	5q35.1
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway, Fc gamma R-mediated phagocytosis



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MW: 211.8 kDa

Gene Summary: The protein encoded by this gene belongs to the CDM protein family. It is specifically expressed in hematopoietic cells and is predominantly expressed in peripheral blood leukocytes. The protein is involved in remodeling of the actin cytoskeleton required for lymphocyte migration in response to chemokine signaling. It activates members of the Rho family of GTPases, for example RAC1 and RAC2, by acting as a guanine nucleotide exchange factor (GEF) to exchange bound GDP for free GTP. Mutations in this gene result in immunodeficiency 40 (IMD40), a combined form of immunodeficiency that affects T cell number and function, also with variable defects in B cell and NK cell function. [provided by RefSeq, May 2018]