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Product datasheet for MC225172

Dock8 (NM_028785) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dock8 (NM_028785) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dock8
Synonyms:	1200017A24Rik; 5830472H07Rik; A130095G14Rik; AI461977
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC225172 representing NM_028785
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACGCTGCCGAGCGCCGAGCGCCGCGCCTTCGCGCTCAAGATCAACAGGTATTCATCGTCAGAAA
TAAGGAAGCAGTTTACGCTCCCACCCAACCTCGGACAGTACCATCGGCACAGTATCAGTACATCTGGTTT
CCCCTCTCTTCAGCTACCTCAGCTTTATGAGCCTGTCGAGCCAGTGGACTTTGAAGGACTCGTGATGACA
CACTTAAACAGCTTGGATGCAGAGCTGGCCCAGGAGCTGGGGGACCTCACCGATGACGACCTGCATGTGG
CCTTCACACCCAAAGAATGTAGGACTTTGCAGCACTCTCTGCCAGAGGAAGGAGTTGAACTGGATCCTCA
CGTCAGAGACTGTGTTCAGACCTATATTCGAGAGTGGCTGATTGTAAACCGGAAAAACCAAGGAAGTTCA
GAGTTTTGCAGCTTTAAAAAGACGGGATCTCGCAGAGATTTTCAGAAGACGCTTCAGAAACAGACGTTTG
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GACTACAAGAGATCTTCATCCCTACAGCGAAGAGTCAAATCCATCCCAGGCTCACTGAGGCTGGAGATAT

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CCCCAGCTCCCGACGTGATGAACTGCTGCCTGACGCCCGAGATGCTGCCAGTCAAACCTTTTCCTGAAAA
TCGGACGCGTCCACACAAGGAGATTTTGGAATTTCCGATCCGGGAGGTGTACGTCCCTCACACTGTGTAC
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AAGAACAGGCGACTCATCACCGCAGAGCAGCGGGAGTACCAGCAGGAGCTGAAGAAGAACTACAACAAGC
TGAGAGACAGCCTCAGGCCCATGATTGAGCGGAAAATCCCAGAGCTCTACAAGCCCATATTCAGAGTTGA
CAGTCAGAAGAGGGACTCTTTCCACAGATCTAGTTTCAGGAAATGTGAAACCCAGTTGTCACAGGGCAGC
TGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-RsrII
ACCN:	NM_028785
Insert Size:	6303 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_028785.3, NP_083061.2
RefSeq Size:	7810 bp
RefSeq ORF:	6303 bp
Locus ID:	76088
UniProt ID:	Q8C147
Cytogenetics:	19 B

Gene Summary: Guanine nucleotide exchange factor (GEF) which specifically activates small GTPase CDC42 by exchanging bound GDP for free GTP (PubMed:28028151, PubMed:22461490). During immune responses, required for interstitial dendritic cell (DC) migration by locally activating CDC42 at the leading edge membrane of DC (PubMed:22461490, PubMed:25713392). Required for CD4(+) T-cell migration in response to chemokine stimulation by promoting CDC42 activation at T cell leading edge membrane (PubMed:28028151). Is involved in NK cell cytotoxicity controlling polarization of microtubule-organizing center (MTOC), and possibly regulating CCDC88B-mediated lytic granule transport to MTOC during cell killing (By similarity). [UniProtKB/Swiss-Prot Function]