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Product datasheet for RC218754

DOCK4 (NM_014705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOCK4 (NM_014705) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DOCK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218754 representing NM_014705 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTGGATACCTACGGAGCACGAGAAATACGGCGTGGTTATTGCCAGTTTCCGAGGAACCGTTCCATATG GCCTGTCATTGGAAATTGGAGATACAGTTCAGATCCTGGAGAAGTGTGATGGCTGGTACAGAGGATTTGC CTTAAAAAACCCAAATATCAAGGGTATATTTCCTTCCAGCTACGTTCACTTGAAAAATGCCTGTGTAAAG AACAAAGGACAATTTGAAATGGTTATTCCCACTGAAGACTCTGTTATCACAGAAATGACATCAACATTAA GAGACTGGGGAACCATGTGGAAACAACTCTATGTGCGTAATGAAGGCGATCTCTTCCACCGGCTGTGGCA CATCATGAATGAAATCCTGGACCTGAGGCGGCAGGTGCTGGTGGGCCACCTCACCCACGACCGGATGAAG GACGTGAAGCGCCACATTACTGCCCGGCTTGACTGGGGCAATGAACAACTGGGACTGGACCTGGTGCCTA GGAAAGAGTACGCAATGGTGGATCCGGAAGACATCAGCATTACTGAGCTCTACCGATTGATGGAACATCG ACATCGGAAGAAAGACACCCCGGTGCAGGCCAGCAGTCACCACCTCTTTGTCCAGATGAAGAGCCTCATG TGTTCCAACCTGGGAGAGGAGCTGGAGGTCATCTTCTCACTCTTTGACAGTAAAGAGAACCGGCCAATCA GTGAGAGATTTTTCTTGAGGCTGAATAGAAACGGGCTTCCCAAAGCCCCTGATAAACCGGAACGACATTG CTCCCTCTTTGTGGATTTGGGCAGCAGTGAGCTAAGAAAGGACATTTATATCACCGTGCACATTATCCGA ATCGGTCGAATGGGAGCAGGAGAAAAAAAGAATGCCTGTAGTGTCCAGTACCGACGACCCTTTGGCTGTG CAGTTCTTAGCATCGCTGACCTGCTAACAGGAGAGACAAAGGATGACCTCATTCTGAAAGTATACATGTG TAACACAGAGAGTGAGTGGTACCAAATCCATGAGAACATCATCAAAAAGCTGAATGCACGTTATAACTTG ACTGGCTCCAATGCAGGTTTAGCAGTTTCCTTACAGCTATTGCACGGAGACATTGAACAAATCAGAAGGG AATATTCATCAGTATTTTCTCATGGAGTATCCATAACAAGGAAGCTGGGATTTTCAAATATTATTATGCC TGGTGAAATGAGGAATGATTTATATATCACTATTGAAAGGGGAGAATTTGAGAAAGGAGGGAAGAGCGTG GCCAGAAATGTGGAAGTTACGATGTTCATTGTAGACAGTAGTGGCCAAACCCTGAAGGATTTTATCTCCT TCGGCTCTGGGGAGCCACCAGCCAGTGAGTACCACTCCTTTGTGCTTTACCATAACAACAGTCCCAGGTG GTCTGAACTGCTGAAACTTCCCATTCCTGTGGATAAATTCCGGGGTGCACACATCCGCTTCGAGTTTCGG CATTGTTCCACAAAGGAGAAAGGAGAGAAGAAGTTGTTTGGGTTTTCTTTTGTCCCTCTGATGCAAGAAG ATGGTAGGACTCTTCCAGATGGCACTCATGAGCTCATCGTGCATAAGTGTGAAGAAAACACAAATCTTCA

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Protein Sequence:

>RC218754 representing NM_014705
Red=Cloning site Green=Tags(s)

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Chromatograms: https://cdn.origene.com/chromatograms/mk8021_b05.zip

Restriction Sites: SgfI-MluI

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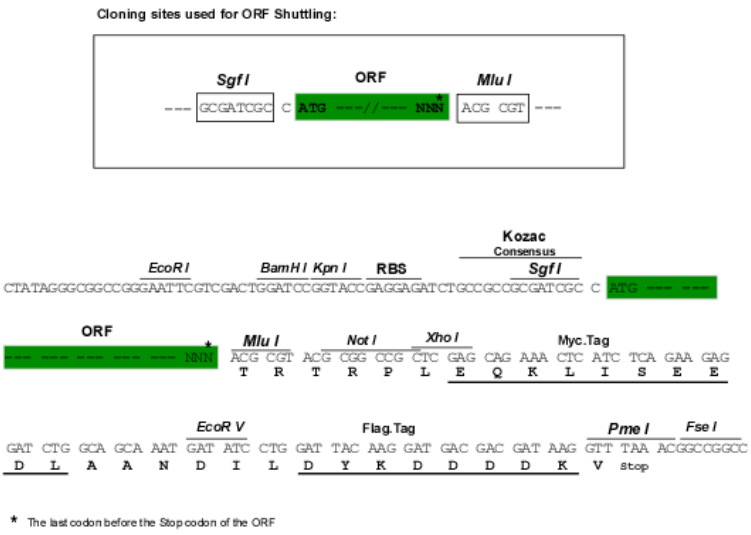
Cloning Scheme:



ACCN:	NM_014705
ORF Size:	5898 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_014705.4
RefSeq Size:	5901 bp
RefSeq ORF:	5901 bp
Locus ID:	9732

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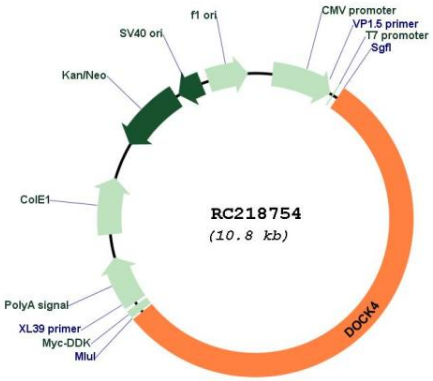
UniProt ID: Q8N1I0

Cytogenetics: 7q31.1

MW: 225 kDa

Gene Summary: This gene is a member of the dedicator of cytokinesis (DOCK) family and encodes a protein with a DHR-1 (CZH-1) domain, a DHR-2 (CZH-2) domain and an SH3 domain. This membrane-associated, cytoplasmic protein functions as a guanine nucleotide exchange factor and is involved in regulation of adherens junctions between cells. Mutations in this gene have been associated with ovarian, prostate, glioma, and colorectal cancers. Alternatively spliced variants which encode different protein isoforms have been described, but only one has been fully characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218754

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