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Product datasheet for MR222000

Dctn2 (NM_027151) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dctn2 (NM_027151) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dctn2
Synonyms:	2310042E05Rik; C87049; C130077D06Rik; DCTN-50; GMP23-48K; p50; RBP50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR222000 representing NM_027151
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGACCCTAAATACGCCGATCTCCCCGGCATTGCCAGGAATGAGCCAGACGTTTATGAAACCAGCG
ACCTACCTGAGGATGATCAAGCAGAGTTTGATGCGGAGGAACTGAGCAGCACAAGCGTGGAACACATCAT
TGTCAACCCCAACGCTGCCTACGACAAGTTCAAGGACAAGAGAGTGGGAACAAAGGGGCTTGATTTCTCA
GATCGCATTGGAAAGACCAAGAGGACAGGATATGAGTCTGGAGACTATGAAATGCTTGGAGAGGGTCTGG
GAGTGAAGGAGACACCGCAGCAGAAGTACCAACGACTACTGCATGAAGTCCAAGAGCTGACAACTGAGGT
GGAGAAGATCAAGACGACAGTGAAGGAGTCAGCCACCGAGGAGAAGCTCACCCCTGTGGTGCTGGCTAAG
CAGCTGGCTGCCCTGAAGCAGCAGCTGGTGGCTTCCCACCTGGAGAAGCTTCTGGGACCAGATGCTGCAA
TCAACCTTGCCGACCCAGACGGAGCCCTAGCTAAGCGCTTACTGCTGCAGCTGGAAGCAACTAAGAGCAG
CAAAGGCAGTTCAGGGGGTAAGGCTACAGCTGGGGCCCCCCCAGACAGCAGCCTGGTCACCTATGAACTC
CACTCACGGCCTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTTGCAGAACTCGAGAAGCGTCTGACAG
AGCTGGAGGCCACTGTCCGATGTGACCAGGATGCTCAGAATCCCCTTTCTGCAGGTCTACAGGGAGCCTG
CCTTATGGAAACGGTAGAACTGTTGCAAGCCAAAGTGAGTGCCCTGGACCTTGCAGTTCTGGACCAAGTA
GAGGCTCGGCTTCAGAGTGTCCTGGGAAAGGTGAATGAGATTGCTAAGCACAAGGCATCCGTGGAGGACG
CAGACACTCAGAACAAGGTGCACCAGCTCTATGAGACCATCCAGCGCTGGAGCCCAGTCGCCTCCACCCT
CCCTGAACTGGTACAGCGACTTGTCACCATCAAGCAGCTGCATGAGCAAGCTATGCAGTTTGGTCAGCTC
CTGACACACTTGGATACCACCCAGCAGATGATGGCCAGTTCCCTTAAGGATAATACTGCTCTCCTGACCC
AGGTGCAGACAACGATGCGTGAAAACTTGGCCACAGTTGAGGGGAACTTTGCCAGCATTGATGCTCGGAT
GAAGAGGCTGGGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

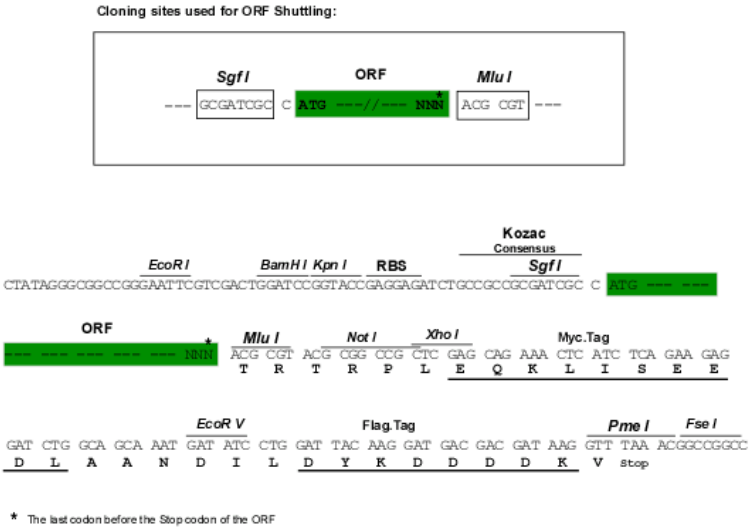
>MR222000 representing NM_027151
Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNEPDVYETSDLPEDDQAEFDAEELSSTSVEHIIVNPNAAYDKFKDKRVGTKGLDFS
DRIGKTKRTGYESGDYEMLGEGLGVKETPQQKYQRLLHEVQELTTEVEKIKTTVKESATEEKLTPVVLAK
QLAALKQQLVASHLEKLLGPDAAINLADPDGALAKRLLLQLEATKSSKGSSGGKATAGAPPDSSLVTYEL
HSRPEQDKFSQAAKVAELEKRLTELEATVRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAVLDQV
EARLQSVLGKVNEIAKHKASVEDADTQNKVHQLYETIQRWSPVASTLPELVQRLVTIKQLHEQAMQFGQL
LTHLDTTQQMMASSLKDNTALLTQVQTTMRENLATVEGNFASIDARMKRLGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027151

ORF Size: 1206 bp

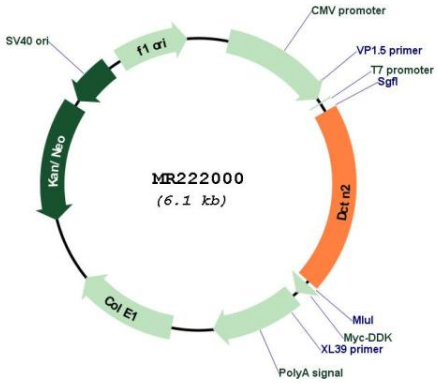
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_027151.2, NP_081427.1
RefSeq Size:	1918 bp
RefSeq ORF:	1209 bp
Locus ID:	69654
UniProt ID:	Q99KJ8
Cytogenetics:	10 74.5 cM
MW:	44.6 kDa
Gene Summary:	Modulates cytoplasmic dynein binding to an organelle, and plays a role in prometaphase chromosome alignment and spindle organization during mitosis. Involved in anchoring microtubules to centrosomes. May play a role in synapse formation during brain development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222000