

Product datasheet for MR222001

Dctn2 (NM_001190454) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dctn2 (NM_001190454) 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:	>MR222001 representing NM_001190454 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCGGACCCTAAATACGCCGATCTCCCCGGCATTGCCAGGAATGAGCCAGACGTTTATGAAACCAGCG
ACCTACCTGAGGATGATCAAGCAGAGTTTATGCGTTTGCACAAGAGCTGGAGGAAGTGCAGCAGACAAG
CGTGGAACACATCATTGTCAACCCCAACGCTGCCTACGACAAGTTCAAGGACAAGAGAGTGGGAACAAG
GGGCTTGATTTCTCAGATCGCATTGAAAGACCAAGAGGACAGGATATGAGTCTGGAGACTATGAAATGC
TTGGAGAGGGTCTGGGAGTGAAGGAGACACCGCAGCAGAAGTACCAACGACTACTGCATGAAGTCCAAGA
GCTGACAAGTGAAGTGGAGAAGATCAAGACGACAGTGAAGGAGTCAAGCAGGAGGAGGAGGAGGAGGAGG
GTGGTGTGGCTAAGCAGCTGGCTGCCCTGAAGCAGCAGCTGGTGGCTTCCACCTGGAGAAGCTTCTGG
GACCAGATGCTGCAATCAACCTTGCCGACCCAGACGGAGCCCTAGCTAAGCGCTTACTGCTGCAGCTGGA
AGCAACTAAGAGCAGCAAAGGCAGTTTCAAGGGGTAAGGCTACAGCTGGGGCCCCCAGACAGCAGCCTG
GTCACCTATGAACTCCACTCACGGCCTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTTGCAGAAGTGC
AGAAGCGTCTGACAGAGCTGGAGGCCACTGTCCGATGTGACCAGGATGCTCAGAATCCCCCTTCTGCAGG
TCTACAGGGAGCCTGCCTTATGAAACGGTAGAAGTGTGCAAGCAAAGTGAAGTGCCTGAGACCTGCAAG
CATCCGTGGAGGACGCAGACACTCAGAACAAGGTGCACCAGCTCTATGAGACCATCCAGCGCTGGAGCCC
AGTCGCCTCCACCCTCCCTGAACTGGTACAGCAGCTTGTCAACATCAAGCAGCTGCATGAGCAAGCTATG
CAGTTTGGTCAAGTCTGACACACTTGGATACCACCCAGCAGATGATGGCCAGTTCCCTTAAAGGATAATA
CTGCTCTCCTGACCCAGGTGCAGACAACGATGCGTGAAAACCTGGCCACAGTTGAGGGGAACTTTGCCAG
CATTGATGCTCGGATGAAGAGGCTGGGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222001 representing NM_001190454
 Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNEPDVYETS~~DL~~PEDDQAEFD~~AF~~AQLEELSS~~TS~~VEHIIVNPNAAYDKFKDKRVG~~TK~~
 GLDFSDRIGKTKRTGYESGDYEMLGEGLGVKETPQKYQRL~~LE~~HEVQELTTEVEKIKTTVKESATEEKLTP
 VVLAKQLAALKQQLVASHLEKLLGPDAAINLADPDGALAKRLL~~LL~~QLEATKSSKGGSSGKATAGAPPDSSL
 VT~~YEL~~HSRPEQDKFSQA~~AK~~VAELEKRLTELEATVRCDDAQNPLSAGLQGA~~CL~~METVELLQAKVSALDLA
 VLDQVEARLQSVLGK~~VNE~~IAKHKASVEDADTQNKVHQLYETIQ~~RW~~SPVASTLP~~EL~~VQRLVTIKQLHEQAM
 QFGQLLTHLDTTQMMASLKDNTALLTQVQTTMRENLATVEGNFASIDARMKRLGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001190454

ORF Size: 1221 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_001190454.1, NP_001177383.1

RefSeq Size: 1933 bp

RefSeq ORF: 1224 bp

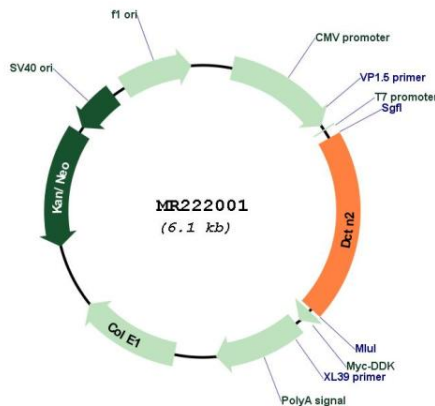
Locus ID: 69654

Cytogenetics: 10 74.5 cM

MW: 45.2 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 MR222001