

Product datasheet for MR206307

Dctn2 (NM_001190453) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Dctn2 (NM_001190453) 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: | >MR206307 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACCCTAAATACGCCGATCTCCCCGGCATTGCCAGGAATGAGCCAGACGTTTATGAAACCAGCG
ACCTACCTGAGGATGATCAAGCAGAGTTTGTGCGGAGGAAGTACGAGCAGACAAGCGTGGAAACACATCAT
TGTCACCCCAACGCTGCCTACGACAAGTTCAAGGACAAGAGAGTGGGAACAAGGGCTTGATTTCTCA
GATCGCATTGAAAGACCAAGAGGACAGGATATGAGTCTGGAGACTATGAAATGCTTGGAGAGGGTCTGG
GAGTGAAGGAGACACCGCAGCAGAAGTACCAACGACTACTGCATGAAGTCCAAGAGCTGACAACCTGAGGT
GGAGAAGATCAAGACGACAGTGAAGGAGTCAGCCACCGAGGAGAAGCTCACCCCTGTGGTCTGGCTAAG
CAGCTGGCTGCCCTGAAGCAGCAGCTGGTGGCTTCCCACCTGGAGAAGCTTCTGGGACCAGATGCTGCAA
TCAACCTTGCCGACCCAGACGGAGCCCTAGCTAAGCGCTTACTGCTGCAGCTGGAAGCAACTAAGAGCAG
CAAAGGCAGTTTCAAGGGGTAAGGCTACAGCTGGGGCCCCCAGACAGCAGCCTGGTCACTATGAACTC
CACTCACGGCTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTTGCAGAACTCGAGAAGCGTCTGACAG
AGCTGGAGGCCACTGTCCGATGTGACCAGGATGCTCAGAATCCCCTTTCTGCAGGTCTACAGGGAGCCTG
CCTTATGAAACGGTAGAACTGTTGCAAGCCAAAGTGAAGTGCCTGGACCTTGCAGTTCTGGACCAAGTA
GAGGCTCGGCTTCAAGTGTCTTGGGAAAGGTGAATGAGATTGCTAAGCACAAGGCATCCGTGGAGGAGC
CAGACTCAGAACAAGGTGCACCAGCTCTATGAGACCATCCAGCGCTGGAGCCAGTCGCCTCCACCCCT
CCCTGAACTGGTACAGCGACTTGTCAACATCAAGCAGCTGCATGAGCAAGCTATGCAGTTTGGTCAGCTC
CTGACACACTTGGATACCACCCAGCAGATGATGGCCAGTTCCTTAAGGATAATACTGCTCCTGACCC
AGGTGCAGACAACGATGCGTGAAAACCTGGCCACAGTTGAGGGGAACTTTGCCAGCATTGATGCTCGGAT
GAAGAGGCTGGGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAAGTTTAA



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Protein Sequence: >MR206307 protein sequence
 Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNEPDVYETS~~DL~~PEDDQAEFDAEELSSTSVEHIIVNPNAAYDKFKDKRVG~~T~~KGLDFS
 DRIGKTKRTGYESGDYEMLGEGLGVKETPQQKYQRL~~L~~HEVQELTTEVEKIKTTVKESATEEKLTPVVLAK
 QLAALKQQLVASHLEKLLGPDAAINLADPDGALAKRLL~~L~~LQLEATKSSKGS~~SG~~GKATAGAPPDSSLVTYEL
 HSRPEQDKFSQAAKVAELEKRLTELEATVRCDQDAQNPLSAGLQGA~~CL~~METVELLQAKVSALDLAVLDQV
 EARLQSVL~~G~~KVNEIAKHKASVEDADTQNKVHQLYETIQRWSPVASTLPELVQRLVTIKQLHEQAMQFGQL
 LTHLDTTQMMASSLKDNTALLTQVQTTMRENLATVEGNFASIDARMKRLGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001190453

ORF Size: 1209 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_001190453.1](#), [NP_001177382.1](#)

RefSeq Size: 1924 bp

RefSeq ORF: 1215 bp

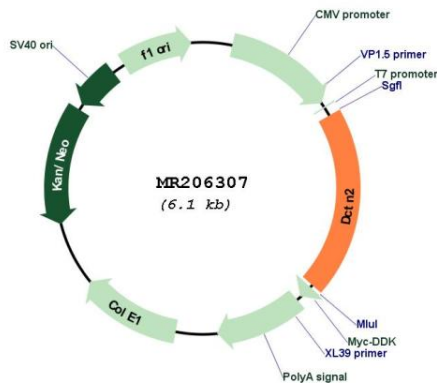
Locus ID: 69654

Cytogenetics: 10 74.5 cM

MW: 44.1 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 MR206307