

## Product datasheet for **RR202032**

### Dctn2 (NM\_001004239) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dctn2 (NM\_001004239) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dctn2  
**Synonyms:** MGC93976  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR202032 representing NM\_001004239  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGACCCTAAATACGCCGATCTCCCCGGCATTGCCAGGAACGAGCCAGATGTTTATGAAACCAGCG  
 ACCTACCTGAGGATGATCAAGCAGAGTTTATGCGGAGGAGCTGAGCAGCACAAGTGTGGAACACATCAT  
 CGTCAACCCCAACGCTGCCTATGACAAGTTCAAGGACAAGAGAGTAGGGACAAAGGGCTTGATTTCTCA  
 GATCGCATTGGAAAGACCAAGAGGACAGGATATGAGTCTGGAGACTATGAAATGCTTGGAGAGGGTCTGG  
 GAGTAAAGGAGACACCACAGCAGAAGTACCAACGACTACTGCATGAAGTCCAGGAGCTGACAACGGAGGT  
 GGAGAAGATCAAGACAACAGTGAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGTCAAGGAGT  
 CAGCTGGCCGCTCTGAAGCAGCAGCTGGTACTTCCCACCTGGAGAAGCTTCTGGGACCAGATGCTGCCA  
 TCAACCTCGTGACCCAGATGGAGCCCTAGCTAAGCGCTTACTGCTGCAGCTGGAAGCAACCAAGAGCAG  
 CAAAGGCAGCTCAGGGGAAAGAGCACAGGTGGCACTCCCCAGATAGCAGCCTTGTCACTTACGAACTC  
 CACTCACGGCCTGAGCAGGACAAGTTCTCGAAGCTGCCAAAGTGCAGAACTCGAGAAGCGCCTGACAG  
 AGCTGGAGGCCACTGTCGCTGTGATCAGGATGCTCAGAATCCCCTTCTGCAGGTCTACAGGGAGCCTG  
 CCTTATGAAACGGTAGAACTGTTACAGGCCAAAGTGAACGCCCTGGACCTTGCAGTTCTGGACCAAGTA  
 GAGGCTCGACTGCAGAGTGTCTGGGAAAGGTGAATGAGATTGCTAAGCAACAGGCATCTGTGGAGGACG  
 CAGACACACAGAAATAAGGTGCACCAGCTCTATGAGACCATCCAGCGCTGGAGCCCTGTGGCCTCCACTCT  
 CCCTGAGCTGGTACAGAGACTTGTCAACATCAAGCAGCTTTCATGAGCAAGCTATGCAGTTTGGTCAGCTC  
 CTGACACACTTGGATACCACCCAGCAGATGATGGCGAGTTCTCTTAAGGACAATACTGCCCTCTGACCC  
 AGGTTTCAGACAACGATGCGTGAAAACCTGGCCACAGTTGAGGGGAATTTGCCAGCATTGATGCTCGTAT  
 GAAGAAGCTGGAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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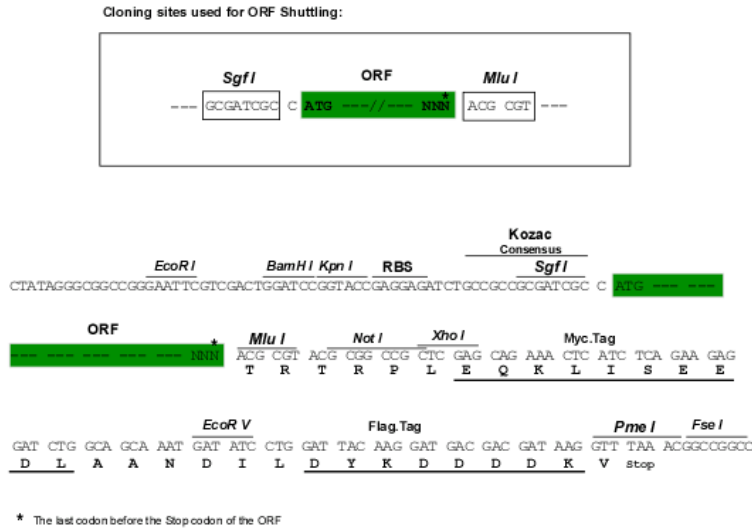
**Protein Sequence:** >RR202032 representing NM\_001004239  
 Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNEPDVYETSDLPEDDQAEFDAEELSSTSVEHIIVNPNAAYDKFKDKRVGKGLDFS  
 DRIGKTKRTGYESGDYEMLGEGLGVKETPQQKYQRLLEHVQELTTEVEKIKTTVKESATEEKLTPVVLAK  
 QLAALKQQLVASHLEKLLGPDAAINLADPDGALAKRLLQLLEATKSSKSGSGGKSTGGTTPDSSLVTYEL  
 HSRPEQDKFSQAAKVAELEKRLTELEATVRCDQDAQNPLSAGLQGAACMETVELLQAKVNALDLAVLDQV  
 EARLQSVLGVNEIAKHKASVEDADTQNKVHQLYETIQRWSPVASTLPELVQRLVTIKQLHEQAMQFGQL  
 LTHLDTTQMMASSLKDNNTALLTQVQTTMRENLATVEGNFASIDARMKKLK

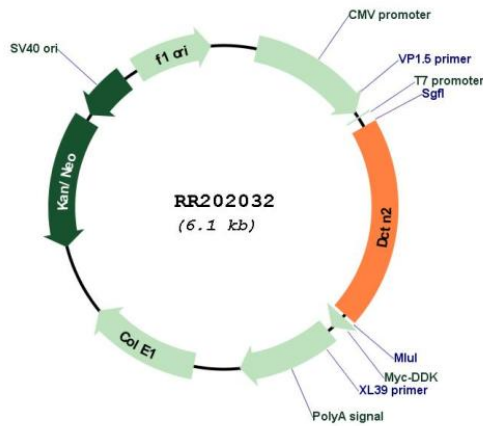
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001004239

<b>ORF Size:</b>	1206 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001004239.1</a> , <a href="#">NP_001004239.1</a>
<b>RefSeq Size:</b>	1675 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	299850
<b>UniProt ID:</b>	<a href="#">Q6AYH5</a>
<b>Cytogenetics:</b>	7q22
<b>MW:</b>	44.1 kDa
<b>Gene Summary:</b>	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 (By similarity).[UniProtKB/Swiss-Prot Function]