

## Product datasheet for **MG222000**

### Dctn2 (NM\_027151) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dctn2 (NM_027151) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dctn2
Synonyms:	2310042E05Rik; C87049; C130077D06Rik; DCTN-50; GMP23-48K; p50; RBP50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222000 representing NM_027151 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGACCCTAAATACGCCGATCTCCCCGGCATTGCCAGGAATGAGCCAGACGTTTATGAAACCAGCG  
ACCTACCTGAGGATGATCAAGCAGAGTTTGATGCGGAGGAAGTACGAGCAGACAAGCGTGGAACACATCAT  
TGTCACCCCAACGCTGCCTACGACAAGTTCAAGGACAAGAGAGTGGGAACAAGGGCTTGATTTCTCA  
GATCGCATTGAAAGACCAAGAGGACAGGATATGAGTCTGGAGACTATGAAATGCTTGGAGAGGGTCTGG  
GAGTGAAGGAGACACCGCAGCAGAAGTACCAACGACTACTGCATGAAGTCCAAGAGCTGACAACCTGAGGT  
GGAGAAGATCAAGACGACAGTGAAGGAGTCAGCCACCGAGGAGAAGCTCACCCCTGTGGTCTGGCTAAG  
CAGCTGGCTGCCCTGAAGCAGCAGCTGGTGGCTTCCCACCTGGAGAAGCTTCTGGGACCAGATGCTGCAA  
TCAACCTTGCCGACCCAGACGGAGCCCTAGCTAAGCGCTTACTGCTGCAGCTGGAAGCAACTAAGAGCAG  
CAAAGGCAGTTACAGGGGTAAGGCTACAGCTGGGGCCCCCAGACAGCAGCCTGGTCACCTATGAACTC  
CACTCACGGCCTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTTGCAGAACTCGAGAAGCGTCTGACAG  
AGCTGGAGGCCACTGTCCGATGTGACCAGGATGCTCAGAATCCCCTTTCTGCAGGTCTACAGGGAGCCTG  
CCTTATGAAACGGTAGAACTGTTGCAAGCCAAAGTGAGTGCCCTGGACCTTGCAGTTCTGGACCAAGTA  
GAGGCTCGGCTTCAGAGTGTCTGGGAAAGTGAATGAGATTGCTAAGCACAAGGATCCGTGGAGGAGCAG  
CAGACTCAGAACAAGGTGCACCACTCTATGAGACCATCCAGCGCTGGAGCCAGTCGCTCCACCCT  
CCCTGAACTGGTACAGCGACTTGTCAACATCAAGCAGCTGCATGAGCAAGCTATGCAGTTTGGTCAGCTC  
CTGACACACTTGGATACCACCCAGCAGATGATGGCCAGTTCCTTAAGGATAATACTGCTCCTGACCC  
AGGTGCAGACAACGATGCGTGAAAACCTGGCCACAGTTGAGGGGAACTTTGCCAGCATTGATGCTCGGAT  
GAAGAGGCTGGAAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222000 representing NM\_027151  
 Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNPDVYETS DLPEDDQAEFDAEELSSTSVEHIIVNPNAAYDKFKDKRVGKGLDFS  
 DRIGKTKRTGYESGDYEMLGEGLGVKETPQKYQRLLHEVQELTTEVEKIKTTVKESATEEKLTPVVLAK  
 QLAALKQQLVASHLEKLLGPDAAINLADPDGALAKRLLQLLEATKSSKGS SGGKATAGAPPDSSLVTYEL  
 HSRPEQDKFSQAAKVAELEKRLTELEATVRCDQDAQNPLSAGLQGA CLMETVELLQAKVSALDLAVLDQV  
 EARLQSVLGKVN EIAKHKASVEDADTQNKVHQLYETIQRWSPVASTLPELVQRLVTIKQLHEQAMQFGQL  
 LTHLDTTQMMASSLKDN TALLTQVQTTMRENLATVEGNFASIDARMKRLGK

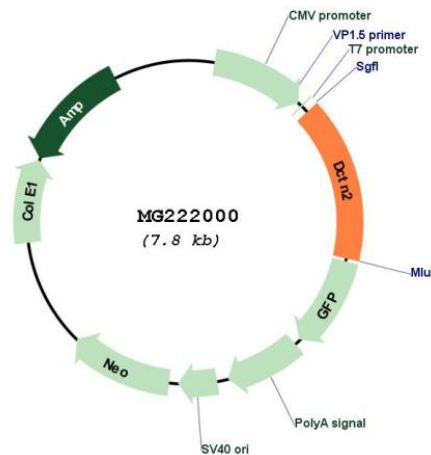
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_027151

<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_027151.2</a> , <a href="#">NP_081427.1</a>
<b>RefSeq Size:</b>	1918 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	69654
<b>UniProt ID:</b>	<a href="#">Q99KJ8</a>
<b>Cytogenetics:</b>	10 74.5 cM
<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.[UniProtKB/Swiss-Prot Function]