

## Product datasheet for **MG222001**

### Dctn2 (NM\_001190454) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dctn2 (NM_001190454) 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:	>MG222001 representing NM_001190454 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGACCCTAAATACGCCGATCTCCCCGGCATTGCCAGGAATGAGCCAGACGTTTATGAAACCAGCG  
ACCTACCTGAGGATGATCAAGCAGAGTTTGATGCGTTTGCACAAGAGCTGGAGGAAGTGCAGCACAAG  
CGTGGAACACATCATTGTCAACCCCAACGCTGCCTACGACAAGTTCAAGGACAAGAGAGTGGGAACAAG  
GGGCTTGATTTCTCAGATCGCATTGAAAGACCAAGAGGACAGGATATGAGTCTGGAGACTATGAAATGC  
TTGGAGAGGGTCTGGGAGTGAAGGAGACACCGCAGCAGAAGTACCAACGACTACTGCATGAAGTCCAAGA  
GCTGACAACTGAGGTGGAGAAGATCAAGACGACAGTGAAGGAGTACGCCACCGAGGAGAAGCTCACCCCT  
GTGGTGTGGCTAAGCAGCTGGCTGCCCTGAAGCAGCAGCTGGTGGCTTCCACCTGGAGAAGCTTCTGG  
GACCAGATGCTGCAATCAACCTTGCCGACCCAGACGGAGCCCTAGCTAAGCGCTTACTGCTGCAGCTGGA  
AGCAACTAAGAGCAGCAAAGGCAGTTTCAAGGGGTAAGGCTACAGCTGGGGCCCCCAGACAGCAGCCTG  
GTCACCTATGAACTCCACTCACGGCCTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTTGCAGAAGTGC  
AGAAGCGTCTGACAGAGCTGGAGGCCACTGTCCGATGTGACCAGGATGCTCAGAAATCCCTTTCTGCAGG  
TCTACAGGGAGCCTGCCTTATGAAAACGGTAGAACTGTTGCAAGCCAAAGTGAGTGCCCTGGACCTTGCA  
GTTCTGGACCAAGTAGAGGCTCGCTTTCAGAGTGTCCCTGGAAAGGTGAATGAGATTGCTAAGCAAGG  
CATCCGTGGAGGACGCAGACACTCAGAACAAGGTGCACCAGCTCTATGAGACCATCCAGCGCTGGAGCCC  
AGTCGCCTCCACCCTCCCTGAACTGGTACAGCAGCTTGTCAACATCAAGCAGCTGCATGAGCAAGCTATG  
CAGTTTGGTCACTCCTGACACACTTGGATACCACCCAGCAGATGATGGCCAGTTCCTTAAGGATAATA  
CTGCTCTCCTGACCCAGGTGCAGACAACGATGCGTGAAAACCTGGCCACAGTTGAGGGGAACTTTGCCAG  
CATTGATGCTCGGATGAAGAGGCTGGGAAAG

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222001 representing NM\_001190454  
 Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNEPDVYETS DLPEDDQAEFD AFAQLEEL SSTSVEHIIVNPNAAYDKFKDKRVGTK  
 GLDFSDRIGKTKRTGYESGDYEMLGEGLGVKETPQQKYQRLLEHVQELTTEVEKIKTTVKESATEEKLTP  
 VVLAKQLAALKQQLVASHLEKLLGPDAAINLADPDGALAKRLLQLLEATKSSKGS GGKATAGAPPDSSL  
 VTVELHSRPEQDKFSQAAKVAELEKRLTELEATVRCDDAQNPLSAGLQGACLMETVELLQAKVSALDLA  
 VLDQVEARLQSVLGKVNEIAKHKASVEDADTQNKVHQLYETIQRWSPVASTLP ELPVQLVLIKQLHEQAM  
 QFGQLLTHLDTTQMMASLKDNTALLTQVQTTMRENLATVEGNFASIDARMKRLGK

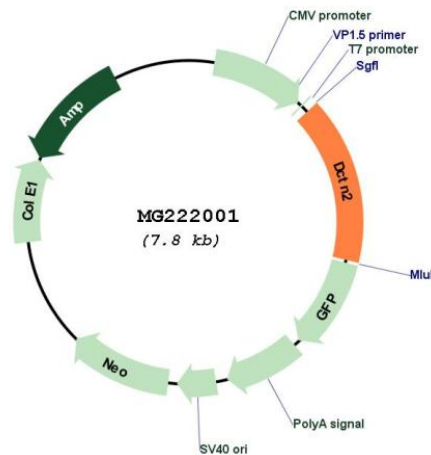
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001190454

<b>ORF Size:</b>	1221 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_001190454.1</a> , <a href="#">NP_001177383.1</a>
<b>RefSeq Size:</b>	1933 bp
<b>RefSeq ORF:</b>	1224 bp
<b>Locus ID:</b>	69654
<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]