

## Product datasheet for **RG236149**

### DCTN3 (NM\_001281425) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DCTN3 (NM\_001281425) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DCTN3  
**Synonyms:** DCTN-22; DCTN22  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236149 representing NM\_001281425.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGGTCTGACTGACTTGCAGCGGTACAGGCCCGAGTGGAAGAGCTGGAGCGCTGGGTGTACGGG
CCGGGCGGGCGCGCGGCTCACGGAAGGTGGTGACGGCCTGGTCAAGGTGCAGGTGGCTTTGGGGAAC
ATTTCCAGCAAGAGGGAGAGGGTGAAGATTCTCTACAAAAGATTGAAGATCTGATCAAGTACCTGGAT
CCTGAGTACATCGACCGCATTGCCATACCTGATGCCTCTAAGCTGCAATTCATCCTAGCAGCCGTTCT
GAGCATGTGCCCGCTGCAGCGCTTGGCCAGATCCACATTGAGCAGCAGGACCAGTGTGTGAAATC
ACTGAGGAGTCCAAGGCTCTCCTGGAGGAATACAACAAGACTACAATGCTTCTCTCAAGCAATTCGTG
CAGTGGGATGAGCTACTTTGCCAGCTAGAGGCCGCCACGCAAGTGAAGCCAGCAGAGGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236149  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAGLTDLQRLQARVEELERWVYGGARGSRKVADGLVKVQVALGNISSKRERVKILYKKIEDLIKLYLD
PEYIDRIAIPDASKLQFLAAVPEHAARLQRLAQIHIQQDQCVEITEESKALLEEYNKTMLLSKQFV
QWDELLCQLEAATQVKPAEE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI

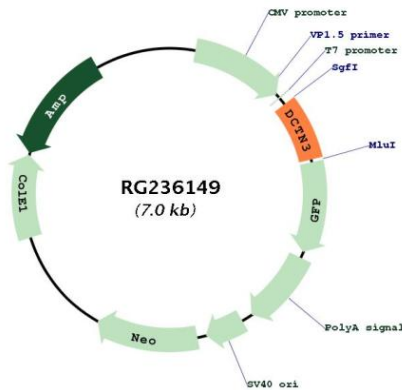


**Cloning Scheme:**


- ACCN:** NM\_001281425
- ORF Size:** 474 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).
- RefSeq:** [NM\\_001281425.1](#), [NP\\_001268354.1](#)
- RefSeq Size:** 773 bp
- RefSeq ORF:** 477 bp
- Locus ID:** 11258
- UniProt ID:** [O75935](#)
- Cytogenetics:** 9p13.3
- MW:** 18.5 kDa

**Gene Summary:**

This gene encodes the smallest subunit of dynactin, a macromolecular complex consisting of 10 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, cytokinesis, chromosome movement, nuclear positioning, and axonogenesis. This subunit, like most other dynactin subunits, exists only as a part of the dynactin complex. It is primarily an alpha-helical protein with very little coiled coil, and binds directly to the largest subunit (p150) of dynactin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

**Product images:**


Circular map for RG236149