

## Product datasheet for **RG210658**

### **DCTN3 (NM\_007234) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DCTN3 (NM\_007234) 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:** >RG210658 representing NM\_007234  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGTCTGACTGACTTGCAGCGGCTACAGGCCGAGTGAAGAGCTGGAGCGCTGGGTGTACGGC  
CGGGCGGGCGCGCGCTCACGGAAGGTGGCTGACGGCCTGGTCAAGGTGCAGGTGGCTTTGGGAAACAT  
TTCCAGCAAGAGGGAGAGGGTGAAGATTCTCTACAAAAAGATTGAAGATCTGATCAAGTACCTGGATCCT  
GAGTACATCGACCGCATTGCCATACCTGATGCCTAAGCTGCAATTCATCCTAGCAGAGGAGCAGTTTA  
TCCTTTCCAGGTTGCACTCCTGGAGCAGGTGAATGCCTTGGTGCCCATGCTGGACAGTGCTCACATCAA  
AGCCGTTCTGAGCATGCTGCCCGCTGCAGCGCTTGGCCAGATCCACATTGAGCAGCAGGACAGTGT  
GTGAAATCACTGAGGAGTCCAAGGCTCTCTGGAGGAATACAACAAGACTACAATGCTTCTCTCCAAGC  
AATTCGTGCAGTGGGATGAGCTACTTTGCCAGCTAGAGGCCGCCACGCAAGTGAAGCCAGCAGAGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG210658 representing NM\_007234  
Red=Cloning site Green=Tags(s)

MAGLTDLQRLQARVEELERWVYGPGGARGSRKVADGLVKVQVALGNISSKRERVKILYKKIEDLIKYLDP  
EYIDRIAIPDASKLQFILAEEQFILSQVALLEQVNALVPMLDSAHIKAVPEHAARLQRLAQIHIQQDQC  
VEITEESKALLEEYNKTTMLLSKQFVQWDELLCQLEAATQVKPAEE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_007234

**ORF Size:** 558 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\\_007234.5](#)

**RefSeq Size:** 846 bp

**RefSeq ORF:** 561 bp

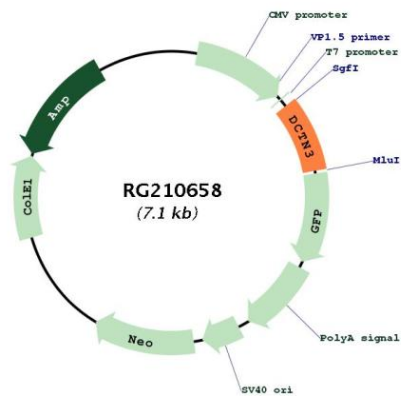
**Locus ID:** 11258

**UniProt ID:** [O75935](#)

Cytogenetics: 9p13.3

**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 RG210658