

## Product datasheet for **SC334187**

### **DCTN3 (NM\_001281427) Human Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	DCTN3 (NM_001281427) Human Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	DCTN3
<b>Synonyms:</b>	DCTN-22; DCTN22
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-Entry (PS100001)
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)
<b>Fully Sequenced ORF:</b>	>NCBI ORF sequence for NM_001281427, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGGGTCTGACTGACTTGCAGCGGCTACAGGCCGAGTGGAAGAGCTGGAGCGCTGGGTGTACGGC  
CGGGCGGGCGCGCGCTCACGGAAGGTGGCTGACGGCCTGGTCAAGGTGCAGGTGGCTTTGGGAAACAT  
TTCCAGCAAGAGGGAGAGGGTGAAGATTCTACAAAAAGATTGAAGATCTGATCAAGTACCTGGATCCT  
GAGTACATCGACCGCATTGCCATACCTGATGCCTCTAAGCTGCAATTCATCCTAGCAGAGGAGCAGTTTA  
TCCTTTCCAGGTTGCACTCCTGGAGCAGGTGAATGCCTTGGTGGCCATGCTGGACAGTGCACATCAA  
AGCCGTTCTGAGCATGCTGCCCGCTGCAGCGCTTGGCCAGATCCACATTCAGCAGCAGATTCTATT  
CTCACCTTGACCTACAACCAGACAATGCTTCTCTCCAAGCAATTCGTGCAGTGGGATGAGCTACTTTGCC  
AGCTAGAGGCCGCCACGCAAGTGAAGCCAGCAGAGGAGTGA
```

<b>Restriction Sites:</b>	SgfI-MluI
<b>ACCN:</b>	NM_001281427
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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).



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**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\\_001281427.1](#), [NP\\_001268356.1](#)

**RefSeq Size:** 827 bp

**RefSeq ORF:** 531 bp

**Locus ID:** 11258

**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]

**Transcript Variant:** This variant (5) lacks an in-frame exon and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (5) is shorter and contains a distinct internal segment, compared to isoform 1.