

Product datasheet for **SC330704**

Dynamitin (DCTN2) (NM_001261412) Human Untagged Clone

Product data:

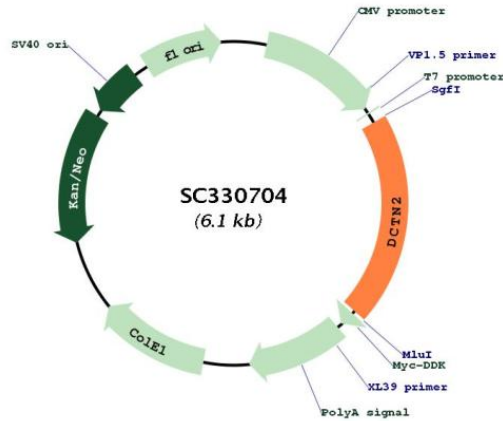
Product Type: Expression Plasmids
Product Name: Dynamitin (DCTN2) (NM_001261412) Human Untagged Clone
Tag: Tag Free
Symbol: DCTN2
Synonyms: DCTN50; DYNAMITIN; HEL-S-77; RBP50
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330704 representing NM_001261412.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGCGGACCCTAAATACGCCGACCTTCCCGGCATTGCCAGGAATGAGCCAGATGTTTATGAACTAGC
GACCTACCTGAGGATGATCAAGCGGAGTTTCGATGCGGAGCTGGAGGAGCTGACAAGCACAAGTGTGGAA
CACATCATTGTCAATCCTAATGCTGCCTATGACAAGTTCAAGGACAAGAGAGTGGGGACAAAGGGACTT
GATTTCTCAGATCGTATTGGAAAAACCAAGAGGACAGGATATGAATCTGGAGAATATGAGATGCTTGG
GAGGGTCTGGGAGTGAAGGAGACACCCAGCAAAAGTACCAGCGCCTACTGCATGAGGTCCAAGAGCTG
ACAAGTGAAGTTGAAAAATCAAGACGACAGTGAAGGAGTCAGCCACAGAGGAGAAGCTGACCCCTGTG
TTGCTGGCTAAACAGCTGGCAGCCCTGAAGCAGCAGCTGGTTGCTTCCCACCTGGAGAAGCTGCTGGGA
CCAGATGCTGCAATCAACCTTACCAGCCCGATGGCGCCCTGGCTAAGCGCCTACTACTGCAGCTGGAA
GCAACAAAGAACAGCAAAGGGGGATCAGGGGGAAAAACCACTGGGACCCCCAGATAGCAGCCTTGTC
ACTTATGAACTACATTCTCGGCCGTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTCGCAGAAGTTGAA
AAGCGCCTGACAGAGCTGGAGACAGCTGTACGTTGTGATCAGGATGCTCAGAATCCCTTTCTGCAGGT
CTACAGGGAGCCTGTCTCATGGAGACTGTAGAGCTGTTGCAAGCAAAGGTGAGCGCCCTAGACCTTGCA
GTTTTGGATCAAGTGGAGGCTCGGCTACAGAGTGTCTGGGAAAGGTGAACGAGATTGCCAAGCATAAA
GCCTCTGTAGAAGATGCAGATACACAAAGCAAGTGCACCAGCTATATGAACTATACAGCGCTGGAGC
CCATTGCCTCCACCCTCCCTGAGCTGGTGCAGAGACTTGTACCATCAAGCAGCTGCACGAGCAAGCC
ATGCAGTTTGGTCAAGCTCCTGACACACTTGGATACCACCCAGCAGATGATTGCTAATTCCTTGAAGGAC
AATACCACCCTCTTGACCAGGTGCAGACAACCATGCGTGAAAACCTGGCCACAGTTGAGGGGAAGTTT
GCCAGATTGATGAACGGATGAAGAAGCTGGGAAAGTGA
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_001261412

Insert Size: 1212 bp

OTI Disclaimer: 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).

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_001261412.1](#)

RefSeq Size: 2119 bp

RefSeq ORF: 1212 bp

Locus ID: 10540

UniProt ID: [Q13561](#)

Cytogenetics: 12q13.3

Protein Pathways: Huntington's disease

MW: 44.5 kDa

Gene Summary: This gene encodes a 50-kD subunit of dynactin, a macromolecular complex consisting of 10-11 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, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 4-5 copies per dynactin molecule. It contains three short alpha-helical coiled-coil domains that may mediate association with self or other dynactin subunits. It may interact directly with the largest subunit (p150) of dynactin and may affix p150 in place. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2012]

Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.