

Product datasheet for **SC204849**

DCTN1 (NM_001135040) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	DCTN1 (NM_001135040) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	DCTN1
Synonyms:	DAP-150; DP-150; P135
ACCN:	NM_001135040
Insert Size:	374 bp
Insert Sequence:	>SC204849 3'UTR clone of NM_001135040 The sequence shown below is from the reference sequence of NM_001135040. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC CACCAGCTTCACAGTCGCTCATCTCCTAAGCACTCCTTTCCCTGCTGTCCCCTTCGACCCTCAGCCC TCTGGTGCCGCTCTGCCGATGCACAGCCACCTCAGCCAGCCCCAGGTAGAAACGTGGGTTAAGCTCT TCTGCCCCGTTAGCTTCACTCCACCCTTTACGCGTCCTGCCCTTACCTTGACCCGGGTTCCCC ACTCCATTCCCTGGCCTCTGCCATAATTTGTTGTTCAACTGCTCCCTCCTTCTGAGGGGCTCAGGG CTTGTGGGGGTAGGCTGAGACCCACCACAAAGGTTAAGTGAGGTCCCCTTGATTGAGGACTTCACC CCTTGATTAAGCAACTTCTGTTCAAGT ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_001135040.3</u>



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Summary: This gene encodes the largest 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. Dynactin 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 interacts with dynein intermediate chain by its domains directly binding to dynein and binds to microtubules via a highly conserved glycine-rich cytoskeleton-associated protein (CAP-Gly) domain in its N-terminus. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. Mutations in this gene cause distal hereditary motor neuropathy type VIIB (HMN7B) which is also known as distal spinal and bulbar muscular atrophy (dSBMA). [provided by RefSeq, Oct 2008]

Locus ID: 1639

MW: 13.4