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Product datasheet for SC315223

DCTN1 (NM_023019) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: DCTN1 (NM_023019) Human Untagged Clone

Tag: Tag Free

Symbol: DCTN1

Synonyms: DAP-150; DP-150; P135

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_023019, the custom clone sequence may differ by one or more nucleotides

ATGATGAGACAGGCACCGACAGCCCGAAAGACCACAACTCGGCGACCCAAGCCCACGCGC
CCAGCCAGTACTGGGGTGGCTGGGGCCAGTAGCTCCCTGGGCCCCTCTGGCTCAGCGTCA
GCAGGTGAGCTGAGCAGCAGTGAGCCCAGCACCCCGGCTCAGACTCCGCTGGCAGCACCC
ATCATCCCCACGCCGGTCCTCACCTCTCCTGGAGCAGTCCCCCCGCTTCCTTCCCCATCC
AAGGAGGAGGAGGGACTAAGGGCTCAGGTGCGGGACCTGGAGGAGAAACTAGAGACCCTG
AGACTGAAACGGGCAGAAGACAAAGCAAAGCTAAAAGAGCTGGAGAAACACAAAATCCAG
CTGGAGCAGGTGCAGGAATGGAAGAGCAAAATGCAGGAGCAGCAGGCCGACCTGCAGCGG
CGCCTCAAGGAGGCGAGAAAGGAAGCCAAGGAGGCGCTGGAGGCAAAGGAACGCTATATG
GAGGAGATGGCTGATACTGCTGATGCCATTGAGATGGCCACTTTGGACAAGGAGATGGCT
GAAGAGCGGGCTGAGTCCCTGCAGCAGGAGGTGGAGGCACTGAAGGAGCGGGTGGACGAG
CTCACTACTGACTTAGAGATCCTCAAGGCTGAGATTGAAGAGAAGGGCTCAGATGGCGCT
GCATCCAGTTATCAGCTCAAGCAGCTTGAGGAGCAGAATGCCCGCCTGAAGGATGCCCTG
GTGAGGATGCGGGATCTTTCTTCCTCAGAGAAGCAGGAGCATGTGAAGCTCCAGAAGCTC
ATGGAAAAGAAGAACCAAGAGCTGGAAGTTGTGAGGCAACAGCGGGAGCGTCTGCAGGAG
GAGCTAAGCCAGGCAGAGAGCACCATTGATGAGCTCAAGGAGCAGGTGGATGCTGCTCTG
GGTGCTGAGGAGATGGTGGAGATGCTGACAGATCGGAACCTGAATCTGGAAGAGAAAGTG
CGCGAGTTGAGGGAGACTGTGGGAGACTTGGAAGCGATGAATGAGATGAACGATGAGCTG
CAGGAGAATGCACGTGAGACAGAACTGGAGCTGCGGGAGCAGCTGGACATGGCAGGCGCG
CGGGTTCGTGAGGCCCAGAAGCGTGTGGAGGCAGCCCAGGAGACGGTTGCAGACTACCAG
CAGACCATCAAGAAGTACCGCCAGCTGACCGCCCATCTACAGGATGTGAATCGGGAACTG
ACAAACCAGCAGGAAGCATCTGTGGAGAGGCAACAGCAGCCACCTCCAGAGACCTTTGAC
TTCAAAATCAAGTTTGCTGAGACTAAGGCCCATGCCAAGGCAATTGAGATGGAATTGAGG
CAGATGGAGGTGGCCCAGGCCAATCGACACATGTCCCTGCTGACAGCCTTCATGCCTGAC
AGCTTCCTTCGGCCAGGTGGGGACCATGACTGCGTTCTGGTGCTGTTGCTCATGCCTCGT
CTCATTTGCAAGGCAGAGCTGATCCGGAAGCAGGCCCAGGAGAAGTTTGAACTAAGTGAG
AACTGTTCAGAGCGGCCTGGGCTGCGAGGAGCTGCTGGGGAGCAACTCAGCTTTGCTGCT
GGACTGGTGTACTCGCTGAGCCTGCTGCAGGCCACGCTACACCGCTATGAGCATGCCCTC
TCTCAGTGCAGTGTGGATGTGTATAAGAAAGTGGGCAGCCTGTACCCTGAGATGAGTGCC
CATGAGCGCTCCTTGGATTTCCTCATTGAACTGCTGCACAAGGATCAGCTGGATGAGACT

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GTCAATGTGGAGCCTCTCACCAAGGCCATCAAGTACTATCAGCATCTGTACAGCATCCAC
CTTGCCGAACAGCCTGAGGACTGTACTATGCAGCTGGCTGACCACATTAAGTTCACGCAG
AGTGCTCTGGACTGCATGAGTGTGGAGGTAGGACGGCTGCGTGCCTTCTTGCAGGGTGGG
CAGGAGGCTACAGATATTGCCCTCCTGCTCCGGGATCTGGAAACTTCATGCAGTGACATC
CGCCAGTTCTGCAAGAAGATCCGAAGGCGAATGCCAGGGACAGATGCTCCTGGGATCCCA
GCTGCACTGGCCTTTGGACCACAGGTATCTGACACGCTCCTAGACTGCAGGAAACACTTG
ACGTGGGTCGTGGCTGTGCTGCAGGAGGTGGCAGCTGCTGCTGCCCAGCTCATTGCCCCA
CTGGCAGAGAATGAGGGGCTACTTGTGGCTGCTCTGGAGGAACTGGCTTTCAAAGCAAGC
GAGCAGATCTATGGGACCCCCTCCAGCAGCCCCTATGAGTGTCTGCGCCAGTCATGCAAC
ATCCTCATCAGTACCATGAACAAGCTGGCCACAGCCATGCAGGAGGGGGAGTATGATGCA
GAGCGGCCCCCCAGCAAGCCTCCACCGGTTGAACTGCGGGCTGCTGCCCTTCGTGCAGAG
ATCACAGATGCTGAAGGCCTGGGTTTGAAGCTCGAAGATCGAGAGACAGTTATTAAGGAG
TTGAAGAAGTCACTCAAGATTAAGGGAGAGGAGCTAAGTGAGGCCAATGTGCGGCTGAGC
CTCCTGGAGAAGAAGTTGGACAGTGCTGCCAAGGATGCAGATGAGCGCATCGAGAAAGTC
CAGACTCGGCTGGAGGAGACCCAGGCACTGCTGCGAAAGAAGGAGAAAGAGTTTGAGGAG
ACAATGGATGCACTCCAGGCTGACATCGACCAGCTGGAGGCAGAGAAGGCAGAACTAAAG
CAGCGTCTGAACAGCCAGTCCAAACGCACGATTGAGGGACTCCGGGGCCCTCCTCCTTCA
GGCATTGCTACTCTGGTCTCTGGCATTGCTGGTGAAGAACAGCAGCGAGGAGCCATCCCT
GGGCAGGCTCCAGGGTCTGTGCCAGGCCCAGGGCTGGTGAAGGACTCACCACTGCTGCTT
CAGCAGATCTCTGCCATGAGGCTGCACATCTCCCAGCTCCAGCATGAGAACAGCATCCTC
AAGGGAGCCCAGATGAAGGCATCCTTGGCATCCCTGCCCCCTCTGCATGTTGCAAAGCTA
TCCCATGAGGGCCCTGGCAGTGAGTTACCAGCTGGAGCGCTGTATCGTAAGACCAGCCAG
CTGCTGGAGACATTGAATCAATTGAGCACACACACGCACGTAGTAGACATCACTCGCACC
AGCCCTGCTGCCAAGAGCCCGTCGGCCCAACTTATGGAGCAAGTGGCTCAGCTTAAGTCC
CTGAGTGACACCGTCGAGAAGCTCAAGGATGAGGTCCTCAAGGAGACAGTATCTCAGCGC
CCTGGAGCCACAGTACCCACTGACTTTGCCACCTTCCCTTCATCAGCCTTCCTCAGGGCC
AAGGAGGAGCAGCAGGATGACACAGTCTACATGGGCAAAGTGACCTTCTCATGTGCGGCT
GGTTTTGGACAGCGACACCGGCTGGTGCTGACCCAGGAGCAGCTGCACCAGCTTCACAGT
CGCCTCATCTCC

Restriction Sites: Please inquire

ACCN: NM_023019

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_023019.1, NP_075408.1
RefSeq Size:	3790 bp
RefSeq ORF:	3435 bp
Locus ID:	1639
UniProt ID:	Q14203
Cytogenetics:	2p13.1
Domains:	M
Protein Families:	Druggable Genome
Protein Pathways:	Huntington's disease
Gene 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 neuronopathy type VIIB (HMN7B) which is also known as distal spinal and bulbar muscular atrophy (dSBMA). [provided by RefSeq, Oct 2008] Transcript Variant: This variant (2) contains an additional in-frame exon in the 3' end, compared to variant 4, resulting in a protein (isoform 2) with a longer C-terminus, compared to isoform 4. Isoform 2 is also called p135. CCDS Note: This CCDS representation lacks publicly available full-length transcript support. Its exon combination is based on mRNA annotation on DNA accession AF064205.1 (AAD55812.1 product) from PMID:9799602.