

Product datasheet for **SC114389**

DCTN4 (NM_016221) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCTN4 (NM_016221) Human Untagged Clone
Tag:	Tag Free
Symbol:	DCTN4
Synonyms:	DYN4; P62
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114389 sequence for NM_016221 edited (data generated by NextGen Sequencing)

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ATGGCGTCCTTGTCTGCAGTCGGACCGGGTCTCTATCTAGTCCAGGGAGAAAAGAAGGTT
CGGGCCCCGCTCTCGAACTCTACTTCTGCCGCTATTGTAGCGAACTGCGGTGCGTGGA
TGTGTGTCTCACGAGGTGGACTCCCATTATTGTCCCAGTTGTTTAGAAAAATGCCATCG
GCTGAAGCCAACTAAAAAGAATAGATGTGCCAATTGTTTGGACTGTCCTGGCTGCATG
CACACCCTCTACTCGGGCCACGAGCATCTCCACACAGCTTCCAGATGACCCAGCCAAG
ACCACCATGAAGAAAGCCTATTACCTGGCATGTGGATTTGTTCGCTGGAGCTCTAGAGAT
GTGGGCATGGCAGACAAATCTGTAGCTAGTGGCGTTGGCAGGAACCTGAAAATCCTCAC
ACACAACGGATGAACAAATTGATTGAATATTACCAGCAGCTTGCTCAGAAAGAGAAGGTT
GAGCGAGATCGCAAGAACTGGCAGCAGTAGAACTATATGCCTCTGGCTTTTTTCGGAC
AAATATGGTCTTGAACCAAGGCTTCAGCGACCACGAGCTGGTGCATCCATCAGTACCCTT
GCCGGACTTTCCCTTAAAGAAGGAGAGGATCAGAAAGAGATAAAGATTGAGCCAGCTCAG
GCTGTGGATGAAGTGAACCTCTACCTGAAGACTATTATACAAGACCAGTAAATTTAACA
GAGGTAACAACCTTTCAGCAGCGTCTGTTACAGCCTGACTTCCAGCCAGTCTGTGCTTCA
CAGCTCTATCCTCGCCACAAACATCTTCTGATCAAACGGTCCCTCGCTGCCGTAATGT
GAACATAATTTGAGCAAGCCAGAATTTAACCCAACGTCAATCAAATTCAGCTG
GTCGCTGTCAATTATATCCAGAAGTGAGAATCATGTCAATTCACCACTTCGCTACATG
AAGGAGAGCCAGGTCCTCCTGACTCTTACAAATCCAGTTGAGAACCTCACCCATGTGACT
CTCTTCGAGTGTGAGGAGGGGGACCCTGATGATATCAACAGCACTGCTAAGGTGGTGGT
CCTCCCAAAGAGCTCGTTTTAGCTGGCAAGGATGCAGCAGCAGAGTACGATGAGTTGGCA
GAACCTCAAGACTTTTCAGGACGATCCTGACATTATAGCCTTCAGAAAGGCCAACAAAGT
GGTATTTTCATCAAAGTTACACCACAGCGTGAGGAGGGTGAAGTGACCGTGTGCTTCAAG
ATGAAGCATGATTTTAAAAACCTGGCAGCCCCCATTGCCCCATTGAAGAAAGTGACCAG
GGAACAGAAAGTCATCTGGCTCACCCAGCATGTGGAACCTTAGCTTGGGCCACTTCTTCT
TAA

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Clone variation with respect to NM_016221.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_016221 unedited

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GTAATACGACTACTATAGGGCGCCGCGAATTCGGCACGAGGCCAAGATGGCGTCCTTG
CTGCAGTCGGACCGGGTCTCTATTCTAGTCCAGGGAGAAAAGAAGGTTGCGGGCCCCGCT
CTCGCAACTCTACTTCTGCCGCTATTGTAGCGAACTGCGGTGCGTGGAATGTGTGTCTCA
CGAGGTGGACTCCCATTATTGTCCCAGTTGTTTAGAAAAATGCCATCGGCTGAAGCCAA
ACTAAAAAGAATAGATGTGCCAATTGTTTGGACTGTCCTGGCTGCATGCACACCCTCTC
TACTCGGGCCACGAGCATCTCCACACAGCTTCCAGATGACCCAGCCAAGACCACCATGAA
GAAAGCCTATTACCTGGCATGTGGATTTGTTCGCTGGAGCTCTAGAGATGTGGGCATGGC
AGACAAATCTGTAGCTAGTGGCGTTGGCAGGAACCTGAAAATCCTCACACACAACGGAT
GAACAAATTGATTGAATATTACCAGCAGCTTGCTCAGAAAGAGAAGGTTGAGCGAGATCG
CAAGAACTGGCAGCAGTAGAACTATATGCCTCTGGCTTTTTTCGGACAAATATGGTCT
TGGAAACCAAGGCTTCAGCGACCACGAGCTGGTGCATCCATCAGTACCCTTGCCGGACTTTC
CCTTAAAGAAGGAGAGGATCAGAAAGAGATAAAGATTGAGCCAGCTCAGGCTGTGGATGA
AGTGAACCTCTACCTGAAGACTATTATACAAGACCAGTAAATNTAACAGAGGTNACCAC
CCTTCAGCAGCGTCTGTTACAGNCTGACTTNCAGCCAGTCTGTGCTTACAGCTCTTCTC
GCACAACCTTCTGATCAAACGTCTGCGCTGCCGTAATGTGAACATATTGAGCAGCCGA
ATTAACCCACGTCATCAATCAATCCACTGGCCTGTCATATTTTCAGAGGAGAA

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016221 unedited CTGCTTTATTTCACTACATTAAGTTAAGCAATAAGGCAAAACAGTAACCTGTCATTCATA AAGATCAAGGAGTACCTCTCTGTCCCAAAGGGACCAAAGGGTGTTCCTCACAAATATG CATGACTTAGCTCATTATGCTGATAAGCACTTCAAACAAAAGAAAGGTCAGTAGGTG AATCAAGTAACAAATCCAAATTAAGCTTACCTAAGTTCCAAAGCTGTAGTTTCAAGTGC TAATGGGATCTAACTTTCCTGTGGTGGTGCATACTGACTAGCATTAAAAATTTTGCACCT CATCTAATATAAAAAAGGCAACAATACAATTCCTAATTCACCAGCTGCAGGTATTGAAT CATTTCTACGAACACACAGAATACTAGCTTACACTAAAACCTATCTTGAGGAAACATTAA ACCAGTGGCTCTATTATTCTGCAAGTTAGTTTGGCTTCTGAAGAAAAAGTCTATGATCA AAGTGTCTGTGTTTCTGTGATGGGAATGATGAGACCCATACTTCAACATTATTACTTT GGGGATTNATACCACCTACCTGCCTAACCGCATGACATGTGTGAAGTCATGCAAACCGTG AAACATATGAAGCTTATCTACTCTATGCGCCATTTCTCACTGGCAAATATGGACCAT GATTTTACATTAGGCTCTAGCAGGTCTGGAATAAAAACTTGAGATTCTGGGGGTACAAA AACCGAATTCCTTTTTTTCCTTGAATTTGGTATTTCCCACTCCCCTGCTTCACTTCCCA GAGGCCAACGGTTTTACCAAAGGCGTAAAAGGAATTTCTCCTTACTCGGTTCAAATT TCACTTTGTGGCGCTTTCCTAAACGTGCGCTCCCTCTGAACCTTCTCCCTTAGGTTTCCC ACCACAATTAGGCCTTTAACCCCTCCAAACTCAAACCTCCCCGGGATTCCACGGGCTCCG CCCTCGTCTACCTTTACGTGTTCTCATTTTCGCCGTATAAATCAGGCAATCAACCCCGC CTCCTACCCCTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_016221
Insert Size:	3890 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:	<ol style="list-style-type: none"> 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:	<u>NM_016221.2, NP_057305.1</u>
RefSeq Size:	3837 bp
RefSeq ORF:	1383 bp
Locus ID:	51164
UniProt ID:	<u>Q9UJW0</u>
Cytogenetics:	5q33.1

Protein Pathways: Huntington's disease

Gene Summary: Could have a dual role in dynein targeting and in ACTR1A/Arp1 subunit of dynactin pointed-end capping. Could be involved in ACTR1A pointed-end binding and in additional roles in linking dynein and dynactin to the cortical cytoskeleton.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.