

Product datasheet for **RC226539**

DCTN4 (NM_001135644) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DCTN4 (NM_001135644) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DCTN4
Synonyms: DYN4; P62
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC226539 representing NM_001135644
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCATCGGCTGAAGCCAACTAAAAAGAATAGATGTGCCAATTGTTTTGACTGTCCTGGCTGCATGC
ACACCCTCTACTCGGGCCACGAGCATCTCCACACAGCTTCCAGATGACCCAGCCAAGACCACCATGAA
GAAAGCCTATTACCTGGCATGTGGATTTTGTGCTGGACGTCTAGAGATGTGGGCATGGCAGACAAATCT
GTAGCTAGTGGCGTTGGCAGGAACCTGAAATCCTCACACACAACGGATGAACAAATTGATTGAATATT
ACCAGCAGCTTGCTCAGAAAGAGAAGGTTGAGCGAGATCGCAAGAACTGGCAGCAGCTAGAAAATATAT
GCCTCTGGCTTTTTCGGACAAATATGGTCTTGGAAACCAGGCTTCAGCGACCACGAGCTGGTGCATCCATC
AGTACCCTTGCCGGACTTCCCTTAAAGAAGGAGAGGATCAGAAAGAGATAAAGATTGAGCCAGCTCAGG
CTGTGGATGAAGTGAACCTCTACCTGAAGACTATTATACAAGACCAGTAAATTTAACAGAGGTAACAAC
CCTTCAGCAGCGTCTGTTACAGCCTGACTTCCAGCCAGTCTGTGCTTACAGCTCTATCCTCGCCACAAA
CATCTTCTGATCAAACGGTCCCTGCGCTGCCGTAATGTGAACATAATTTGAGCAAGCCAGAATTTAAC
CAACGTCATCAAATCAAATCCAGCTGGTGGTCAATTATATCCAGAAGTGAAGTGAATCATGTCAT
TCCCAACCTTCGCTACATGAAGGAGAGCCAGGTCCTCCTGACTCTTACAATCCAGTTGAGAACCTCACC
CATGTGACTCTTTCGAGTGTGAGGAGGGGACCCTGATGATATCAACAGCACTGCTAAGTGGTGGTGC
CTCCAAAGAGCTCGTTTTAGCTGGCAAGGATGCAGCAGCAGAGTACGATGAGTTGGCAGAACCTCAAGA
CTTTCAGGACGATCCTGACATTATAGCCTTCAGAAAGGCCAACAAAGTGGGTATTTTCATCAAAGTTACA
CCACAGCGTGAGGAGGGTGAAGTGACCGTGTGCTTCAAGATGAAGCATGATTTTAAAAACCTGGCAGCCC
CCATTCGCCCCATTGAAGAAAGTGACCAGGAACAGAAGTCATCTGGCTCACCAGCATGTGGAACCTTAG
CTTGGGCCACTTCTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC226539 representing NM_001135644
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MPSAEAKLKKNCANCFDCPGCMHTLSTRATSISTQLPDDPAKTTMKKAYYLACGFCRWTSRDVGMADKS
 VASGGWQEPENPHTQRMNKLI EYYQQLAQKEKVERDRKKLARRRNYMPLAFSDKYLGLTRLQPRPRAGASI
 STLAGLSLKEGEDQKEIKIEPAQAVDEVEPLPEDYYTRPVNLT EVTTLQQRLLQPDFQPVCASQL YPRHK
 HLLIKRSLRCRKCEHNL SKPEFNPTS IKFKIQL VAVNYIPEVRIMSIPNLRMYMKSQVLL TLNTPVENLT
 HVTLFECEE GPD DINSTAKVVVPPKEL VLAGDAAA EYDELAEPQDFQDDPDIIA FRKANKVGI FIKVT
 PQREEGEVTVCFMKHDFKNLAAPIRPIEESDQGT EVIWLTQHVELSLG PLLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

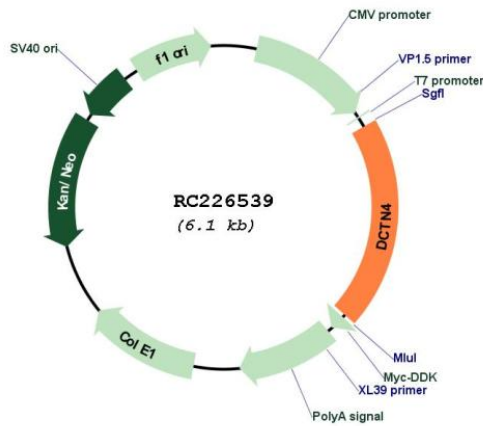
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135644

ORF Size:	1209 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001135644.1 , NP_001129116.1
RefSeq Size:	4105 bp
RefSeq ORF:	1212 bp
Locus ID:	51164
UniProt ID:	Q9UJW0
Cytogenetics:	5q33.1
Protein Pathways:	Huntington's disease
MW:	45.8 kDa
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]