

Product datasheet for **RG226530**

DCTN4 (NM_001135643) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCTN4 (NM_001135643) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCTN4
Synonyms:	DYN4; P62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG226530 representing NM_001135643
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTCTTGTGTCAGTCGGACCGGGTCTCTATCTAGTCCAGGGAGAAAAGAAGGTTCTGGGCCCCGC
 TCTCGCAACTCTACTTCTGCCGCTATTGTAGCGAACTGCGGTGGAATGTGTGTCTCACGAGGTGGA
 CTCCCATTATTGTCCAGTTGTTTAGAAAAATATGCCATCGGCTGAAGCCAACTAAAAAGAATAGATGT
 GCCAATTGTTTTGACTGTCCTGGCTGCATGCACACCTCTCTACTCGGGCCACGAGCATCTCCACACAGC
 TTCCAGATGACCCAGCCAAGACCACCATGAAGAAAGCCTATTACCTGGCATGTGGATTTTGTGCTGGAC
 GTCTAGAGATGTGGCATGGCAGACAACTCTGTAGCTAGTGGCGTTGGCAGGAACCTGAAAATCCTCAC
 ACACAACGGATGAACAAATTGATTGAATATTACCAGCAGCTTGCTCAGAAAGAGAAGGTTGAGCGAGATC
 GCAAGAACTGGCAGCAGTAGAACTATATGCCTCTGGCTTTTCGCAACATACTATTCATGTAGTGGA
 CAAATATGGTCTTGGAACAGGCTTCAGCGACCAGAGCTGGTGCATCCATCAGTACCCTTGCCGGAATT
 TCCTTAAAGAAGGAGAGGATCAGAAAGAGATAAAGATTGAGCCAGCTCAGGCTGTGGATGAAGTGAAC
 CTCTACCTGAAGACTATTATACAGACCAAGTAAATTTAACAGAGGTAACAACCTTCAGCAGCGTCTGTT
 ACAGCCTGACTTCCAGCCAGTCTGTGCTTACAGCTCTATCCTCGCCACAAACATCTTCTGATCAACCG
 TCCCTGCGCTGCCGTAATGTGAACATAATTTGAGCAAGCCAGAAATTAACCCACGTCATCAAATTC
 AAATCCAGCTGGTCGCTGTCAATTATATCCAGAAGTGAGAAATCATGTCAATCCCAACCTTCGCTACAT
 GAAGGAGAGCCAGGTCTCTGACTCTTACAAATCCAGTTGAGAACCTCACCCATGTGACTCTCTTCGAG
 TGTGAGGAGGGGACCCTGATGATATCAACAGCACTGCTAAGGTGGTGGTGCCTCCCAAAGAGCTCGTTT
 TAGCTGGCAAGGATGCAGCAGCAGAGTACGATGAGTTGGCAGAACCTCAAGACTTTCAGGACGATCCTGA
 CATTATAGCCTTCAGAAAGGCCAACAAAGTGGGTATTTTCATCAAAGTTACACCACAGCGTGAGGAGGGT
 GAAGTGACCGTGTGCTTCAAGATGAAGCATGATTTTAAAAACCTGGCAGCCCCCATTGCCCCATTGAAG
 AAAGTGACCAGGGAACAGAAGTCATCTGGCTCACCCAGCATGTGGAACCTAGCTTGGGCCCACTTCTTCC
 T

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226530 representing NM_001135643
 Red=Cloning site Green=Tags(s)

MASLLQSDRVLYLVQGEKKVRAPLSQLYFCRYCSELRSLECVSHEVDSHYCPSCLNMPSAEAKLKKNRC
 ANCFDCPGCMHTLSTRATSISTQLPDDPAKTTMKAYYLACGFCRWTSRDVGMADKSVASGGWQEPENPH
 TQRMNKLIEYYQQLAQKEKVERDRKKLARRRNYMPLAFSQHTIHVVDKYGLGTRLQRPRAGASISTLAGL
 SLKEGEDQKEIKIEPAQAVDEVEPLPEDYYTRPVNLTEVTTLQQRLLQPDFQPVCAQLYPRHKHLLIKR
 SLRCRKCEHNLKPEFNPTSIKFKIQLVAVNYIPEVRIMSIPNLRMYKESQVLLTLTNPVENLTHVTLFE
 CEEGDPDDINSTAKVVVPPKELVLAGKDAAEYDELAEPQDFQDDPDIIAFRKANKVGIFIKVTPQREEG
 EVTVCFKMKHDFKNLAAPIRPIEESDQGEVIWLTQHVELSLGPLLP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001135643

ORF Size: 1401 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

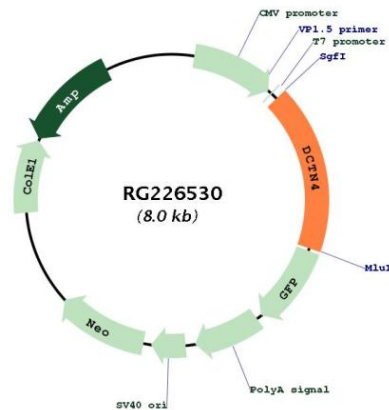
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

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_001135643.1, NP_001129115.1</u>
RefSeq Size:	3958 bp
RefSeq ORF:	1404 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]

Product images:



Circular map for RG226530