

Product datasheet for **RG226539**

DCTN4 (NM_001135644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCTN4 (NM_001135644) 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:

>RG226539 representing NM_001135644
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGTCTTGTGTCAGTCGGACCGGTTCTCTATCTAGTCCAGGGAGAAAAGAAGTTTCGGGCCCCGC
 TCTCGCAACTCTACTTCTGCCGCTATTGTAGCGAACTGCGGTGCTGGAATGTGTGTCTCACGAGGTGGA
 CTCCCATTATTGTCCCAGTTGTTTGA AAAATATGCCATCGGCTGAAGCCAACTAAAAAGAATAGATGT
 GCCAATTGTTTTGACTGCTGCTGGCTGCATGCACACCCTCTCTACTCGGGCCACGAGCATCTCCACACAGC
 TTACAGATGACCCAGCCAAGACCACCATGAAGAAAGCCTATTACCTGGCATGTGGATTTTGTGCTGGAC
 GTCTAGAGATGTGGCATGGCAGACAACTCTGTAGCTAGTGGCGTTGGCAGGAACCTGAAAATCCTCAC
 ACACAACGGATGAACAAATTGATTGAATATTACCAGCAGCTTGTCTAGAAAGAGAAGTTGAGCGAGATC
 GCAAGAACTGGCAGCAGTGA AAATATATGCCTCTGGCTTTTTCGGACAAATATGGTCTTGAACCGAG
 GCTTCAGCGACCACGAGCTGGTGCATCCATCAGTACCCTTGGCGACTTTCCCTTAAAGAAGGAGAGGAT
 CAGAAAGAGATAAAGATTGAGCCAGCTCAGGCTGTGGATGAAGTGAACCTCTACCTGAAGACTATTATA
 CAAGACCAGTAAATTTAACAGAGGTAACAACCTTCAGCAGCGTCTGTTACAGCCTGACTTCCAGCCAGT
 CTGTGCTTACAGCTCTATCCTCGCCACAAACATCTTCTGATCAAACGGTCCCTGCGCTGCCGTAATGT
 GAACATAATTTGAGCAAGCCAGAATTTAACCCAACGTCAATCAAATCAAATCCAGCTGGTTCGCTGTCA
 ATTATATCCAGAAGTGAGAATCATGTCAATCCCAACCTTCGCTACATGAAGGAGAGCCAGGTCCTCTCT
 GACTCTTACAAATCCAGTTGAGAACCTCACCATGTGACTCTATTCGAGTGTGAGGAGGGGGACCCTGAT
 GATATCAACAGCACTGCTAAGGTGGTGGTGCCTCCAAAGAGCTCGTTTTAGCTGGCAAGGATGACAGCAG
 CAGAGTACGATGAGTTGGCAGAACCTCAAGACTTTCAGGACGATCCTGACATTATAGCCTTCAGAAAGGC
 CAACAAAGTGGGATTTTTCATCAAAGTTACACCACAGCGTGAGGAGGGTGAAGTGACCGTGTGCTTCAAG
 ATGAAGCATGATTTTAAAAACCTGGCAGCCCCATTTCGCCCATTTGAAGAAAGTGACCAGGGAACAGAAG
 TCATCTGGCTCACCCAGCATGTGGAACCTTAGCTTGGGCCCACTTCTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226539 representing NM_001135644
 Red=Cloning site Green=Tags(s)

MASLLQSDRVLYLVQGEKKVRAPLSQLYFCRYCSELRSLECVSHEVDSHYCPSLENMPSAEAKLKKNRC
 ANCFDCPGCMHTLSTRATSISTQLTDDPAKTTMKAYYLACGFCRWTSRDVGMAKSVASGGWQEPENPH
 TQRMNKLIEYYQLAQKEKVERDRKKLARRRNYMPLAFSDKYGLGTRLQRPRAGASISTLAGLSLKEGED
 QKEIKIEPAQAVDEVEPLPEDYTRPVNLTEVTTLQQRLLQPDFQPVASQLYPRHKHLLIKRSLRCRKC
 EHNL SKPEFNPTSIFKIQLVAVNYIPEVRIMSIPNLRYMKESQVLLTLTNPVENLTHVTLFECEEGDPD
 DINSTAKVVVPPKELVLAGKDAAEYDELAEPQDFQDDPDIIAFRKANKVGIKIVTPQREEGEVTVCFK
 MKHDFKNLAAPIRPIEESDQGEVIWLTQHVELSLGPLL P

TRTRPLE - GFP Tag - V

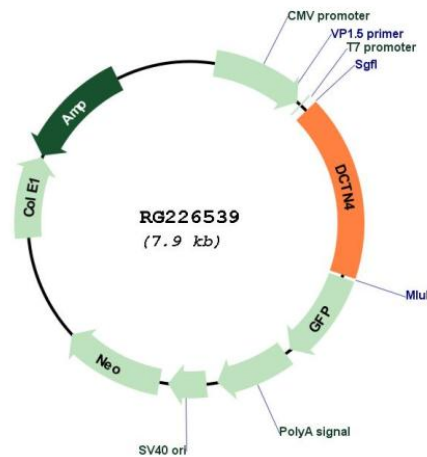
Restriction Sites:

Sgfl-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:	<u>NM_001135644.1, NP_001129116.1</u>
RefSeq Size:	4105 bp
RefSeq ORF:	1212 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]