

Product datasheet for **RG232661**

Dynamitin (DCTN2) (NM_001261413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynamitin (DCTN2) (NM_001261413) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCTN2
Synonyms:	DCTN50; DYNAMITIN; HEL-S-77; RBP50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232661 representing NM_001261413 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACCCTAAATACGCCGACCTCCCGCATTGCCAGGAATGAGCCAGATGTTTATGAAACTAGCG
ACCTACCTGAGGATGATCAAGCGGAGTTCGATGCGGAGGAGCTGACAAGCACAAGTGGAACACATCAT
TGTCATCCTAATGCTGCCTATGACAAGTTCAAGGACAAGAGAGTGGGGACAAAGGGACTTGATTTCTCA
GATCGTATTGGAAAAACCAAGAGGACAGGATATGAATCTGGAGAATATGAGATGCTTGGAGAGGGTCTGG
GAGTGAAGGAGACACCCAGCAAAGTACCAGCGCCTACTGCATGAGGTCCAAGAGCTGACAACCTGAAGT
TGAAAAATCAAGACGACAGTGAAGGAGTCAGCCACAGAGGAGAAGCTGACCCCTGTGTTGCTGGCTAAA
CAGCTGGCAGCCCTGAAGCAGCAGCTGGTTGCTTCCCACCTGGAGAAGCTGCTGGGACCAGATGCTGCAA
TCAACCTTACCGACCCCGATGGCGCCCTGGCTAAGCGCCTACTACTGCAGCTGGAAGCAACAAAGACAG
CAAAGGGGGATCAGGGGGAAAAACCACTGGGACCCCCAGATAGCAGCCTTGTCACCTTATGAACTACAT
TCTCGCCTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTCGCAGAAGTGAAGGCGCCTGACAGAGC
TGGAGACAGCTGTACGTTGTGATCAGGATGCTCAGAATCCCTTTCTGCAGGTCTACAGGGAGCCTGTCT
CATGGAGACTGTAGAGCTGTTGCAAGCAAAGGTGAGCGCCCTAGACCTTGCAATTTGGATCAAGTGGAG
GCTCGGCTACAGAGTGTCTGGAAAGGTGAACGAGATTGCCAAGCATAAAGCCTCTGTAGAAGATGCAG
ATACACAAAGCAAGGTGCACCAGCTATATGAAACTATACAGCGCTGGAGCCCATTCCTCCACCCCTCCC
TGAGCTGGTGCAGAGACTTGTACCATCAAGCAGCTGCACGAGCAAGCCATGCAGTTTGGTCAGCTCCTG
ACACACTTGGATACCACCCAGCAGATGATTGCTAATTCCTTGAAGGACAATACCACCTCTTGACCCAGG
TGCAGACAACCATGCGTGAACCTGGCCACAGTTGAGGGAACTTTGCCAGCATTGATGAACGGATGAA
GAAGCTGGGAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232661 representing NM_001261413
 Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNPDVYETS DLPEDDQAEFDAAEELTSTSVEHIIVNPNAAYDKFKDKRVGKGLDFS
 DRIGKTKRTGYESGEYEMLGEGLGVKETPQQKYQRLLEHVQELTTEVEKIKTTVKESATEEKLTPVLLAK
 QLAALKQQLVASHLEKLLGPDAAINLTPDGDALAKRLLQLLEATKNSKGGSGGKTTGTPPDSSLVYELH
 SRPEQDKFSQAQKVALEKRLTELETAVRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAVLDQVE
 ARLQSVLGVNEIAKHKASVEDADTQSKVHQLYETIQRWSPIASLTPELVQRLVTIKQLHEQAMQFGQLL
 THLDTTQMIAANSLKDNNTLLTQVQTTMRENLATVEGNFASIDERMKKLK

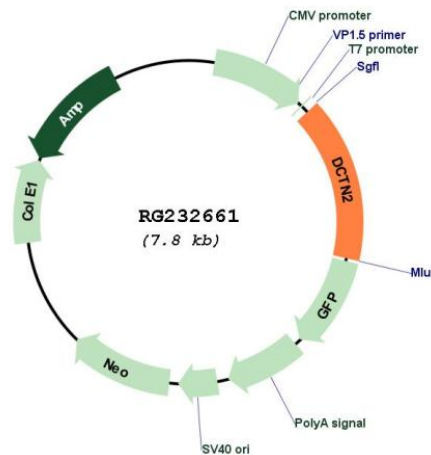
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001261413

ORF Size:	1203 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_001261413.2
RefSeq Size:	2113 bp
RefSeq ORF:	1206 bp
Locus ID:	10540
UniProt ID:	Q13561
Cytogenetics:	12q13.3
Protein Pathways:	Huntington's disease
Gene Summary:	This gene encodes a 50-kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It 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 is present in 4-5 copies per dynactin molecule. It contains three short alpha-helical coiled-coil domains that may mediate association with self or other dynactin subunits. It may interact directly with the largest subunit (p150) of dynactin and may affix p150 in place. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2012]