

Product datasheet for **RG214771**

Dynamitin (DCTN2) (NM_006400) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynamitin (DCTN2) (NM_006400) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dynamitin
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:	>RG214771 representing NM_006400 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACCCTAAATACGCCGACCTTCCCGCATTGCCAGGAATGAGCCAGATGTTTATGAAACTAGCG
ACCTACCTGAGGATGATCAAGCGGAGTTTCGATGCGTTTGCACAAGAGCTGGAGGAGCTGACAAGCACAAG
TGTGGAACACATCATTGTCAATCCTAATGCTGCCTATGACAAGTTCAAGGACAAGAGAGTGGGGACAAG
GGACTTGATTTCTCAGATCGTATTGAAAAACCAAGAGGACAGGATATGAATCTGGAGAATATGAGATGC
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GCTGACAAGTGAAGTTGAAAAATCAAGACGACAGTGAAGGAGTCAAGCAGAGGAGAAGCTGACCCCT
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GACCAGATGCTGCAATCAACCTTACCGACCCCGATGGCGCCCTGGCTAAGCGCCTACTACTGCAGCTGGA
AGCAACAAAGAACAGCAAGGGGGATCAGGGGGAAAAACCACTGGGACCCCCAGATAGCAGCCTTGTC
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AGCGCCTGACAGAGCTGGAGACAGCTGTACGTTGTGATCAGGATGCTCAGAATCCCCTTCTGCAGGTCT
ACAGGGAGCCTGTCTCATGGAGACTGTAGAGCTGTTGCAAGCAAGGTGAGCGCCCTAGACCTTGCAATT
TTGGATCAAGTGGAGGCTCGGCTACAGAGTGCCTGGGAAAGTGAACGAGATTGCCAAGCATAAAGCCT
CTGTAGAAGATGCAGATACACAAAGCAAGGTGCACCAGCTATATGAAACTATACAGCGCTGGAGCCCAT
TGCCCTCCACCCTCCCTGAGCTGGTGCAGAGACTTGTCAACATCAAGCAGCTGCACGAGCAAGCCATGCAG
TTTGGTCACTCTGACACACTTGGATACCACCCAGCAGATGATTGCTAATTCCTTGAAGGACAATACCA
CCCTCTTGACCCAGGTGCAGACAACCATGCGTGAAAACCTGGCCACAGTTGAGGGGAACTTTGCCAGCAT
TGATGAACGGATGAAGAAGCTGGGAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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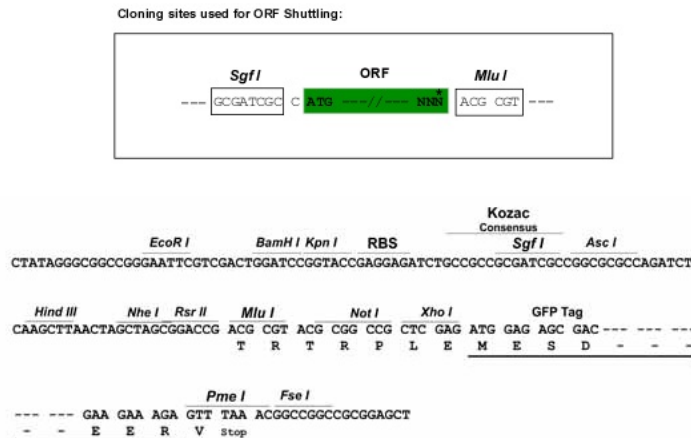
Protein Sequence: >RG214771 representing NM_006400
 Red=Cloning site Green=Tags(s)

MADPKYADLPGIARNPDVYETSDLPEDDQAEFDFAQLEELTSTSVEHIIVNPNAAYDKFKDKRVGK
 GLDFSDRIGKTKRTGYESGEYEMLGEGLGVKETPQKYQRLLEHVQELTTEVEKIKTTVKESATEEKLTP
 VLLAKQLAALKQQLVASHLEKLLGPDAAINLTPDGALAKRLLQLLEATKNSKGGSGGKTTGPPDSSLV
 TYELHSRPEQDKFSQAAKVAELEKRLTELETAVRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAV
 LDQVEARLQSVLQKVNIEIAHKASVEDADTQSKVHQLYETIQRWSPIASLPELVQRLVTIKQLHEQAMQ
 FGQLLTHLDTTQMIANSKDNNTLLTQVQTTMRENLATVEGNFASIDERMKKLK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006400

ORF Size: 1218 bp

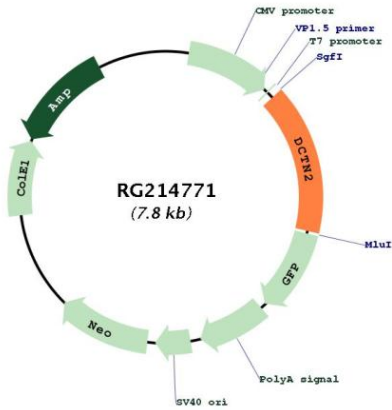
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_006400.4
RefSeq Size:	1757 bp
RefSeq ORF:	1221 bp
Locus ID:	10540
UniProt ID:	Q13561
Cytogenetics:	12q13.3
Domains:	Dynamitin
Protein Pathways:	Huntington's disease
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG214771