

Product datasheet for RC203052

DCPS (NM_014026) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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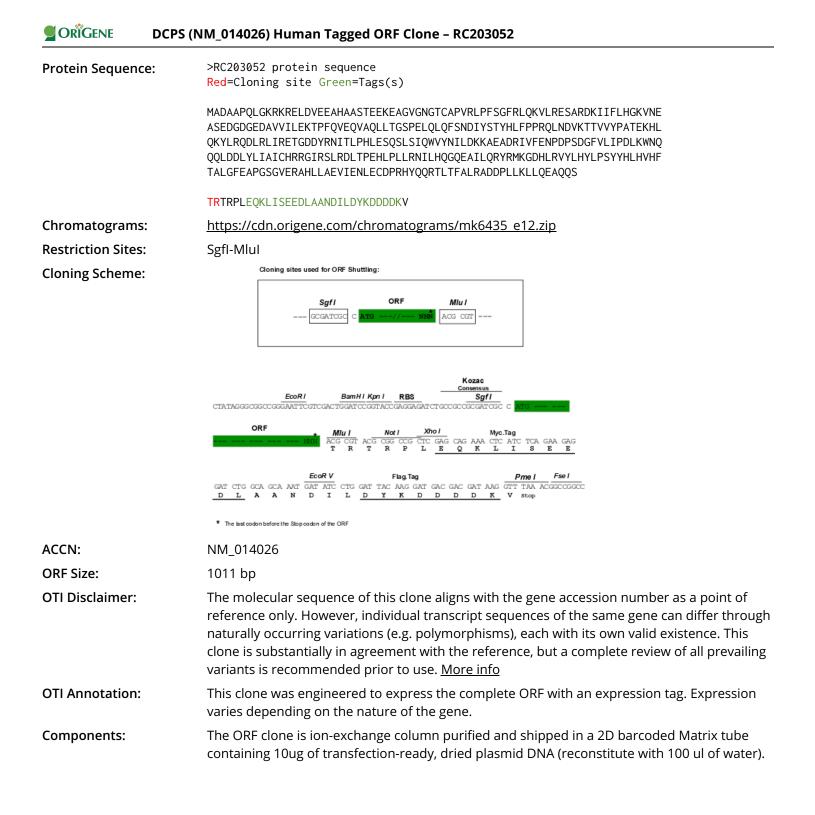
Product Type:	Expression Plasmids
Product Name:	DCPS (NM_014026) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DCPS
Synonyms:	ARS; DCS1; HINT-5; HINT5; HSL1; HSPC015
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC203052 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGGCGGACGCAGCTCCTCAACTAGGCAAGAGGAAGCGCGAATTGGACGTGGAGGAGGCCCACGCCGCCA GCACAGAGGAAAAGGAGGCAGGAGTTGGAAATGGTACCTGTGCTCCTGTCCGCTTACCGTTCTCCGGCTT CAGACTGCAGAAGGTGCTGAGGGAGTCGCGCGGGGACAAAATCATTTTCCTACACGGGAAGGTGAATGAG GCCTCTGAGGGATGGAGAGAGGATGCCGTTGTGATCCTGGAGAAGACGCCATTTCAGGTGGAACAGG TGGCTCAGCTCCTGACGGGCAGCCTGAGCTCCAATTGCAGTTCTCCAATGATATCTACAGCACCTATCA CTTGTTCCCTCCAAGACAACTGAATGATGTAAAGACGACCGTGGTTTACCCTGCCACAGAGAAACACCTG CAGAAGTACCTGCGCCAGGACCTCCGCTGATCCGAGAGACGGGAGATGACTACAGGAACATTACTTTAC CCCACCTGGAGTCCCAGGACCTCCGCCTGATCCGAGGAGACGGGAGATGACTACAGGAACATTACTTTAC CCGACTGGAGTCCCAGAGCCTCAGCATCCCAGTGGGTGTATAACATTCTCGACAAGAAGGCTGAAGCGGA CCGGATTGTTTTCGAGAACCCAGATCCCTCTGATGGTTTTGTCCTCATCCCTGACCTCAAGTGGAACCAA CAGCAGCTCGATGACTTGTACTTGATCGCCATCTGCCATCGCCGGGGCATCAGATCCCTACGCGACCTTA CTCCGGAGCACTTGCCGCTGCTCAGGAACATCCTCCACCAGGGGCAGGAGGCCATCCTGCAGCGCTACCG GATGAAGGGAGACCATCTGCGGGTCAAGCACCCCCCTCCTACTACCACCTGCAGCGCTACCG GATGAAGGGAGACCATCTGCGGGCTCAGGCGTGGAGCGGCCCACCTGCAGGGCGAGAGGCATCCAGAACACCCAGA ACTTGGAGTGTGACCCTAGGCACTACCAGCAGCGCCACCTTCGCCGCTGAGGTGATCGAGA ACTTGGAGTGTGACCCTAGGCACTACCAGCAGCGCCACCTTCGCCGCTGAGGCTGACGACCCCT GCTCAAGCTCTTGCAGGAGCCCAGCACAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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DCPS (NM_014026) Human Tagged ORF Clone – RC203052

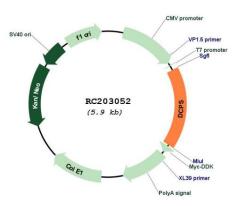
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 014026.6</u>
RefSeq Size:	1508 bp
RefSeq ORF:	1014 bp
Locus ID:	28960
UniProt ID:	<u>Q96C86</u>
Cytogenetics:	11q24.2
Protein Pathways:	RNA degradation
MW:	38.7 kDa
Gene Summary:	This gene encodes a member of the histidine triad family of pyrophosphatases that removes short mRNA fragments containing the 5′ mRNA cap structure, which appear in the 3′ → 5′ mRNA decay pathway, following deadenylation and exosome-mediated turnover. This enzyme hydrolyzes the triphosphate linkage of the cap structure (7-methylguanosine nucleoside triphosphate) to yield 7-methylguanosine monophosphate and nucleoside diphosphate. It protects the cell from the potentially toxic accumulation of these short, capped mRNA fragments, and regulates the activity of other cap-binding proteins, which are inhibited by their accumulation. It also acts as a transcript-specific modulator of

pre-mRNA splicing and microRNA turnover. [provided by RefSeq, Apr 2017]

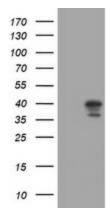
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Product images:

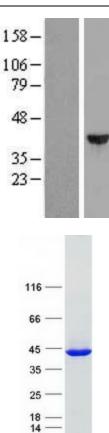


Circular map for RC203052



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DCPS (Cat# RC203052, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DCPS(Cat# [TA505420]). Positive lysates [LY415527] (100ug) and [LC415527] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY415527]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203052 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified DCPS protein (Cat# [TP303052]). The protein was produced from HEK293T cells transfected with DCPS cDNA clone (Cat# RC203052) using MegaTran 2.0 (Cat# [TT210002]).

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