

Product datasheet for **RG203052**

DCPS (NM_014026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCPS (NM_014026) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCPS
Synonyms:	ARS; DCS1; HINT-5; HINT5; HSL1; HSPC015
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203052 representing NM_014026 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGACGCAGCTCCTCAACTAGGCAAGAGGAAGCGCAATTGGACGTGGAGGAGGCCACGCCCA
GCACAGAGGAAAAGGAGGCAGGAGTTGGAAATGGTACCTGTGCTCCTGTCCGCTTACCGTTCTCCGGCTT
CAGACTGCAGAAGGTGCTGAGGGAGTCTGCGCGGGACAAAATCATTTTCCTACACGGGAAGGTGAATGAG
GCCTCTGAGGATGGGGATGGAGAGGATGCCGTTGTGATCCTGGAGAAGACGCCATTTAGGTGGAACAGG
TGGCTCAGCTCCTGACGGGCAGCCCTGAGCTCCAATTGCAGTTCTCCAATGATATCTACAGCACCTATCA
CTTGTTCCCTCCAAGACAACCTGAATGATGTAAAGACGACCGTGGTTTACCCTGCCACAGAGAAAACCTG
CAGAAGTACCTGCGCCAGGACCTCCGCCTGATCCGAGAGACGGGAGATGACTACAGGAACATTACTTTAC
CCCACCTGGAGTCCCAGAGCCTCAGCATCCAGTGGGTGTATAACATTCTCGACAAGAAGGCTGAAGCGGA
CCGGATTGTTTTCGAAGACCCAGATCCCTCTGATGGTTTTGTCCCTCATCCCTGACCTCAAGTGAACCAA
CAGCAGCTCGATGACTTGTACTTGATCGCCATCTGCCATCGCCGGGGCATCAGATCCCTACGCGACCTTA
CTCCGGAGCACTTGCCGCTGCTCAGGAACATCTCCACCAGGGGCAGGAGGCCATCTGCAGCGCTACCG
GATGAAGGAGACCATCTGCGAGTATACCTGCACTACCTGCCCTCCTACTACCACCTGCATGTGCACTTC
ACCGCCCTGGGCTTCGAGGCCCGGCTCAGGCGTGGAGCGGGCCACCTGCTGGCTGAGGTGATCGAGA
ACTTGGAGTGTGACCCTAGGCACTACCAGCAGCGCACGCTCACCTTCGCCCTCAGGGCTGACGACCCCT
GCTCAAGCTCTTGACAGGAGGCTCAGCAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG203052 representing NM_014026
 Red=Cloning site Green=Tags(s)

MADAAPQLGKRKRELDVEEHAASTEKEAGVNGTCCAPVRLPFSGFRLQKVLRESARDKIIFLHGKVNE
 ASEDGDGEDAVVILEKTPFQVEQVAQLL TGSPQLQFSNDIYSTYHLFPPRQLNDVKTTVVYPATEKHL
 QKYLRQDLRLIRETGDDYRNITLPHLESQSLSIQWVYNILDKKAEADRI VFENPDP SDGFVLIPDLKWNQ
 QQLDDL YLIAICHRRGIRSLRDL TPEHLPLLRNHLHQQQEAILQR YRMKGDHLRVYLHLYLPSYYHLHVHF
 TALGFEAPGSGVERAHL LAEVIENLECDPRHYQQRTLTFALRADDPLLLKLLQEAQQS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014026

ORF Size: 1011 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:

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_014026.3](#), [NP_054745.1](#)

RefSeq Size: 1508 bp

RefSeq ORF: 1014 bp

Locus ID: 28960

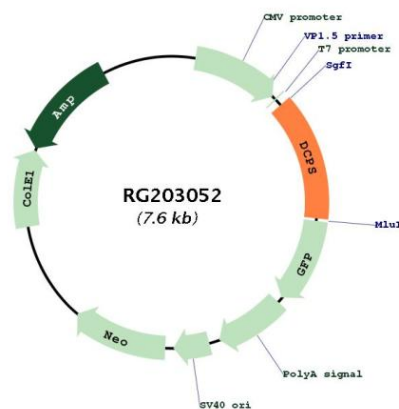
UniProt ID: [Q96C86](#)

Cytogenetics: 11q24.2

Protein Pathways: RNA degradation

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' 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]

Product images:



Circular map for RG203052