

## Product datasheet for **RG201330**

### DCP1A (NM\_018403) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DCP1A (NM_018403) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCP1A
Synonyms:	HSA275986; Nbla00360; SMAD4IP1; SMIF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG201330 representing NM\_018403  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCGCTGAGTCGAGCTGGCAGGAGATGAGCCTAGCGGCCCTGAAGCAACACGACCCTATATCA  
 CCAGCATCGCAGACCTCACGGGCCAGGTCGCTCTGTACACCTTCTGCCCAAGGCCAACCAGTGGGAGAA  
 GACTGATATAGAAGGGACCTTATTCGTATATCGAAGGTCAGCTTCCCCTTACCATGGTTTTACCATTGTG  
 AATCGACTAAATATGCACAATCTAGTTGAACAGTGAATAAAGATTTGGAATTTAGCTCCATGAACCAT  
 TTCTTCTGTATAGAAATGCAAGCTTGTGATATATAGTATCTGGTTTTATGACAAGAATGACTGTCACCG  
 CATAGCAAACCTCATGGCTGATGTGGTAGAAGAGGAGACACGGCGATCCCAGCAAGCTGCTCGGGACAAA  
 CAGAGTCCCAGCCAGGCCAATGGCTGCAGCGACCACAGGCCCATCGACATCCTGGAGATGCTGAGCAGAG  
 CCAAGGATGAGTATGAGAGGAATCAGATGGGTGACTCAAATATCTCCAGCCCTGGGTTACAGCCAAGCAC  
 TCAGCTCTCCAATCTGGGAAGCACCGAGACTCTAGAAGAAATGCCCTCCGGGTACAGGATAAGTCTGCT  
 CCATCTGGACACAAGCATCTGACGGTAGAAGAGTTATTTGGAACCTCTTTGCCAAAGGAACAACCAGCAG  
 TTGTGGGTCTGGATTGAGAAGAAATGGAGAGGTTGCCAGGAGATGCCTCCAGAAAGAGCCCAATTCATT  
 CCTACATTTCCCTTTGAGCAGTTAGGAGGAGCCCTCAATCAGAAACCTGGGTGTCCCTTCTGCTGCC  
 CACCATTAGTCCAGCCTGAAATCACACCCTCGGTGCTAATCACTCCAGCCTCCATCACACAGTCCAATG  
 AAAAGCATGCTCCAACCTACACAATCCCCTGAGCCCTGTTCTCAGTCCCCTCTGCCAGCTGAAGCTCC  
 TACTGCACAGGTTCCCCCAGCTTACCTCGAAACAGCACCATGATGCAGGCAGTGAAGACCACGCCTAGA  
 CAGAGGCTCCACTCTGAACCAGCCAGTCCCTGAGCTAAGCCATGCCAGTCTGATTGCCAACAGAGCC  
 CCTTCAGGGCCCCATTGAACGTGACGAACACAGCTGGCACATCCCTCCCAAGCGTTGATCTTCTCCAGAA  
 ACTCAGGTTGACCCACAGCATGACCAAATACAGACACAACCCTTGGGAAAGGTGCAATGGTAGCCAGC  
 TTTTCTCCGCGAGCTGGTCAGCTAGCCACACTGAGAGCTTCATAGAGCCTCCCTCTAAGACAGCAGCAG  
 CAAGAGTGGCGGCCTCAGCCTCCCTGAGCAACATGGTGTGCTCCCTTCCAGTCTATGCAGCAGAACCA  
 GGATCCTGAAGTATTTGTGAGCCTAAGGTGTTATCCAGTGCCATCCCGTTGACAGGCGCCCCACTGGTT  
 ACTGCAACGACCACTGCAGTGTCTTCAAGTCTGCTGGCCCAAGTGTTCAGCAGACAGTTACAAGAT  
 CTTGGACCTTGAGAGGAAAGCCAGCTCCCTTCTCTTAATATTGGAACGCCAGAAAGTCAGAGAAA  
 GCCTTCCATTATCTCAGCAAGTCTCAGCTCCAGGATACATTAATACATCTAATAAAGAATGATTCAGC  
 TTCTCAGTACACTTCATGAAGTCTACTGCAGGTTCTGACCAAGAACAAGACAACCACAACCTA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG201330 representing NM\_018403  
 Red=Cloning site Green=Tags(s)

MEALSRAGQEMSLAALKQHDPYITSIADLTGQVALYTFCKANQWEKTDIEGTLFVYRRSAPYHGFTIV  
 NRLNMHNLVEPVNKDLEFQLHEPFLLYRNASLSIYSIWFYDKNDCHRIAKLMADVVEEETRRSQQAARDK  
 QSPSQANGCSDHRPIDILEMLSRKDEYERNQMGDSNISSPGLQPSTQLSNLSTETLEEMPSGSQDKSA  
 PSGHKHLTVEELFGTSLPKEQPAVVGLDSEEMERLPGDASQKEPNSFLPFPFEQLGGAPQSETLGVPSAA  
 HHSVQPEITTPVLITPASITQSNEKHPTYTIPLSPVLSPTLPAEAPTAQVPPSLPRNSTMMQAVKTTPR  
 QRSPLLNPVPELSHASLIANQSPFRAPLNVNTAGTSLPSVDLLQKLRLTPQHDQIQTPQLGKGAMVAS  
 FSPAAGQLATPESFIEPPSKTAAARVAASASLSNMVLAQLQSMQNNQDPEVVFQPKVLSAIPVAGAPLV  
 TATTTAVSSVLLAPSVFQQTVTRSSDLERKASSPSPLTIGTPESQRKPSIILSKSQLQDTLIHLIKNDSS  
 FLSTLHEVYLLQVLTKNKDNHNL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_018403

ORF Size: 1746 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\\_018403.7](#)

RefSeq Size: 2054 bp

RefSeq ORF: 1749 bp

Locus ID: 55802

UniProt ID: [Q9NPI6](#)

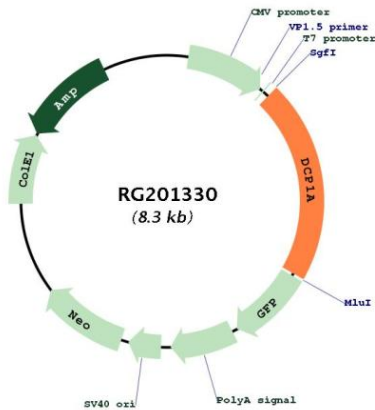
Cytogenetics: 3p21.1

**Protein Families:** Transcription Factors

**Protein Pathways:** RNA degradation

**Gene Summary:** Decapping is a key step in general and regulated mRNA decay. The protein encoded by this gene is a decapping enzyme. This protein and another decapping enzyme form a decapping complex, which interacts with the nonsense-mediated decay factor hUpf1 and may be recruited to mRNAs containing premature termination codons. This protein also participates in the TGF-beta signaling pathway. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2014]

**Product images:**



Circular map for RG201330