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Product datasheet for RG238139

DCP1A (NM_001290207) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCP1A (NM_001290207) 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)

ORF Nucleotide Sequence:

>RG238139 representing NM_001290207.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGATGTGGTAGAAGAGGAGACACGGCGATCCCAGCAAGCTGCTCGGGACAAACAGAGTCCCAGC
CAGGCCAATGGCTGCAGCGACCACAGGCCCATCGACATCCTGGAGATGCTGAGCAGAGCCAAGGATGAG
TATGAGAGGTCTGCTCCATCTGGACACAAGCATCTGACGGTAGAAGAGTTATTTGGAACCTCTTTGCCA
AAGGAACAACCAGCAGTTGTGGGTCTGGATTCAGAAGAAATGGAGAGGTTGCCAGGAGATGCCTCCCAG
AAAGAGCCCAATTCATTCCTACCATTTCCCTTTGAGCAGTTAGGAGGAGCCCCTCAATCAGAAACCCTG
GGTGTCCCTTCTGCTGCCCACCATTCAGTCCAGCCTGAAATCACCACCCCGGTGCTAATCACTCCAGCC
TCCATCACACAGTCCAATGAAAAGCATGCTCCAACCTACACAATCCCGTTGAGCCCTGTTCTCAGTCCC
ACTCTGCCAGCTGAAGCTCCTACTGCACAGGTTCCCCCCAGCTTACCTCGAAACAGCACCATGATGCAG
GCAGTGAAGACCACGCCTAGACAGAGGTCTCCACTCCTGAACCAGCCAGTCCCTGAGCTAAGCCATGCC
AGTCTGATTGCCAACCAGAGCCCCTTCAGGGCCCCATTGAACGTGACGAACACAGCTGGCACATCCCTC
CCAAGCGTTGATCTTCTCCAGAAACTCAGGTTGACCCCACAGCATGACCAAATACAGACACAACCACTT
GGGAAAGGTGCAATGGTAGCCAGCTTTTCTCCGGCAGCTGGTCAGCTAGCCACACCTGAGAGCTTCATA
GAGCCTCCCTCTAAGACAGCAGCAGCAAGAGTGGCGGCCTCAGCCTCCCTGAGCAACATGGTGCTTGCT
CCCCTTCAGTCTATGCAGCAGAACCAGGATCCTGAAGTATTTGTGCAGCCTAAGGTGTTATCCAGTGCC
ATCCCGGTTGCAGGCGCCCCACTGGTTACTGCAACGACCACTGCAGTGTCTTCAGTCCTGCTGGCCCCA
AGTGTTTTCCAGCAGACAGTTACAAGATCTTCGGACCTTGAGAGGAAAGCCAGCTCCCCTTCTCCTCTA
ACTATTGGAACGCCAGAAAGTCAGAGAAAGCCTTCCATTATTCTCAGCAAGTCTCAGCTCCAGGATACA
TTAATACATCTAATAAAGAATGATTCCAGCTTCCTCAGTACACTTCATGAAGTCTACTTGCAGGTTCTG
ACCAAGAACAAAGACAACCACAACCTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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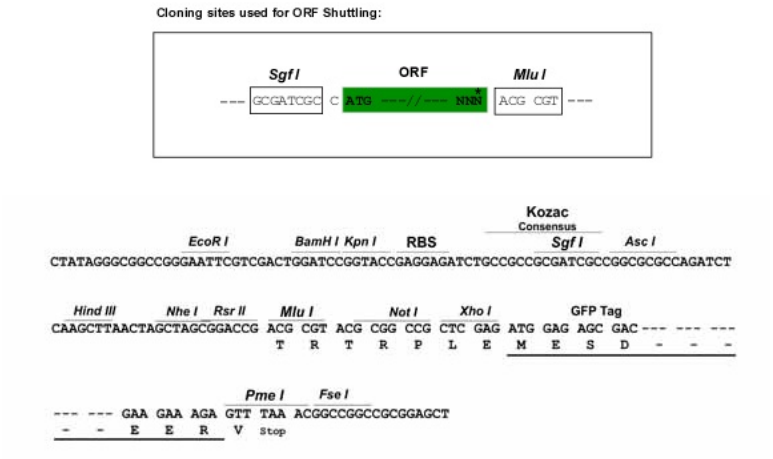
Protein Sequence:

>Peptide sequence encoded by RG238139
Blue=ORF Red=Cloning site Green=Tag(s)

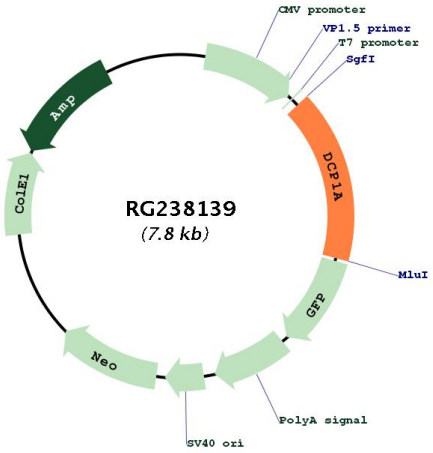
MADVVEEETRRSQQAARDKQSPSQANGCSDHRPIDILEMLSRAKDEYERSAPSGHKHLTVEELFGTSLP
KEQPAVVGLDSEEMERLPGDASQKEPNSFLPFPFEQLGGAPQSETLGVPSAAHHSVQPEITTPVLITPA
SITQSNEKHAPTYTIPLSPVLSPTLPAEAPTAQVPPSLPRNSTMMQAVKTTPRQRSPLLNQPVPELSHA
SLIANQSPFRAPLNVTNTAGTSLPSVDLLQKLRLTPQHDQIQTQPLGKGAMVASFSPAAGQLATPESFI
EPPSKTAAARVAASASLSNMVLAPLQSMQQNQDPEVFVQPKVLSSAIPVAGAPLVTATTTAVSSVLLAP
SVFQQTVTRSSDLERKASSPSPLTIGTPESQRKPSIILSKSQLQDTLIHLIKNDSSFLSTLHEVYLQVL
TKNKDNHNL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001290207
ORF Size:	1269 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).
RefSeq:	NM_001290207.2
RefSeq Size:	5785 bp
RefSeq ORF:	1272 bp
Locus ID:	55802
UniProt ID:	Q9NPI6
Cytogenetics:	3p21.1
Protein Families:	Transcription Factors
Protein Pathways:	RNA degradation
MW:	45.8 kDa

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]