

Product datasheet for **RG232630**

DCP2 (NM_001242377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCP2 (NM_001242377) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCP2
Synonyms:	NUDT20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232630 representing NM_001242377 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCAAACGGGTGGAGATCCCGGCAGCGTCCTGGACGATCTCTGCAGCCGATTTATTTGCATA
TTCCCAGCGAGGAAAGAGACAATGCAATCCGAGTGTGTTTTAGATTGAACTTGCCATTGGTTTTACTT
GGATTTCTACATGCAGAACACACCAGGATTACCTCAGTGTGGGATAAGAGACTTTGCTAAAGCTGTCTTC
AGTCATTGTCCGTTTTGCTGCCTCAAGGTGAAGATGTGAAAAAGTTTTGGATGAATGGAAGGAATATA
AAATGGGAGTACCAACATATGGTCAATTATTCTTGATGAGACACTTGAAAATGTACTACTAGTTCAGGG
GTACCTAGCAAAATCAGGCTGGGGATTTCCAAAAGGAAAAGTAAATAAAGAAGAAGCTCCTCATGATTGT
GCTGCTAGAGAGGTCTTTGAAGAACTGGTTTTGATATCAAAGACTATATTTGTAAGGATGATTACATTG
AACTTCGAATCAATGACCAGCTTGCTCGTTGTACATCATTCCAGGAATTCAAAAGACACAAAATTTAA
CCCAAAAAGTAAAGAGAAATTCGGAACATTGAGTGGTTCTCTATTGAGAAATTCCTTGTCATAGAAAT
GATATGACCCCAAAATCCAACTTGTTTTGGCACCTAACAAATTTTTATGGCCATTCCCTTTATCAGAC
CATTAAAGGGACTGGCTTCTCGAAGATTTGGCGATTCTCAGACAGTGACAATGGATTTTCTCAACTGG
TAGCACGCCGGCTAAACCACTGTGAAAAATTTGAGTGAACCAATTCGCCACAGTCAGCAGTTATTT
CCTGACGGTTCTCCTGGTGACCAGTGGGTAAGCACAGGCAACCACTGCAGCAAAAGCCATATAAATC
ATTCTGAAATGTCTGACCTTTAAAAGGAAAGAAGTGTGAAAAGAACTTCATCCACGGAACTTCAGGA
TAATTTTGAACAGATGCTGTATATGACTTGCCTAGCTCAGTGAAGACAGTTGCTAGAACATGCTGAG
GGACAGCCCGTGGCATGTAATGGACATTGCAAGTCCCCTTTTCCAGAGCCTTTTTGAGTTTCAAGT
TTGACCATAATGCTATAATGAAAATCTTGGACCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232630 representing NM_001242377
 Red=Cloning site Green=Tags(s)

METKRVEIPGSVLDDLCRSRIFLHIPSEERDNAIRVCFQIELAHWFYLD FYMQNTPGLPQCGIRDFAKAVF
 SHCPFLLPQGEDVEKVLDEWKEYKMGVPTYGAIILDETLNVLVQGYLAKSGWGFPGKGVNKEEAPHDC
 AAREVFEETGFDIKDYICKDDYIELRINDQLARLYIIPGIPKDTKFNPKTRREIRNIEWFSIEKLPCHRN
 DMTPKSKLGLAPNKFMAIPFIRPLRDWLSRRFGDSSSDNGFSSTGSTPAKPTVEKLSRTKFRHSQQLF
 PDGSPGDQWVKHRQPLQKPYNNHSEMSDLLKGGKCKEKLHPRKLQDNFETDAVYDLPSSSEDQLLEHAE
 GQPVACNGHCKFFPSSRAFLSFKFDHNAIMKILD

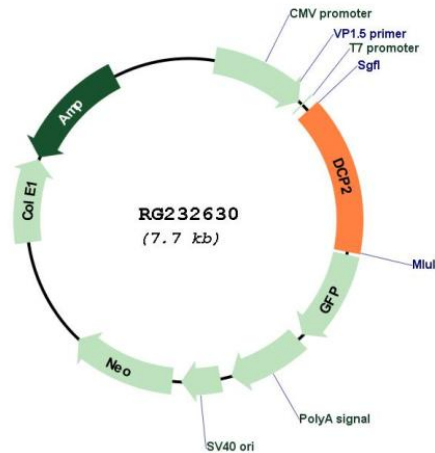
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242377

ORF Size:	1155 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_001242377.2
RefSeq Size:	10093 bp
RefSeq ORF:	1158 bp
Locus ID:	167227
UniProt ID:	Q8IU60
Cytogenetics:	5q22.2
Protein Pathways:	RNA degradation
Gene Summary:	The protein encoded by this gene is a key component of an mRNA-decapping complex required for degradation of mRNAs, both in normal mRNA turnover, and in nonsense-mediated mRNA decay (NMD). It removes the 7-methyl guanine cap structure from mRNA, prior to its degradation from the 5' end. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Jun 2011]