

Product datasheet for **SC100774**

DCP2 (NM_152624) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCP2 (NM_152624) Human Untagged Clone
Tag:	Tag Free
Symbol:	DCP2
Synonyms:	NUDT20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152624, the custom clone sequence may differ by one or more nucleotides

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ATGGAGACCAAACGGGTGGAGATTCCCAGCAGCGTCTGGACGATCTCTGCAGCCGATTTATTTGCATA
TTCCCAGCGAGGAAAGAGACAATGCAATCCGAGTGTGTTTTAGATTGAACCTTGCCATTGGTTTTACTT
GGATTTCTACATGCAGAACACACCAGGATTACCTCAGTGTGGGATAAGAGACTTTGCTAAAGCTGTCTTC
AGTCATTGTCCGTTTTGCTGCCTCAAGGTGAAGATGTGGAAAAAGTTTTGGATGAATGGAAGGAATATA
AAATGGGAGTACCAACATATGGTGAATTATTCTTGATGAGACACTTGAAAAATGTAATACTACTAGTTCAGGG
GTACCTAGCAAAATCAGGCTGGGATTTCCAAAAGGAAAAAGTAAATAAAGAAGAAGCTCCTCATGATTGT
GCTGCTAGAGAGGTCTTTGAAGAACTGGTTTTGATATCAAAGACTATATTTGTAAGGATGATTACATTG
AACTTCGAATCAATGACCAGCTTGTCTGTTGTACATCATTCCAGGAATCCAAAAGACACAAAATTTAA
CCCAAAAAGTAAAGAGAAATTCGGAACATTGAGTGGTTCTCTATTGAGAAATGCTTGTGCATAGAAAT
GATATGACCCCAAACTCCAACTTGGTTTTGGCACCTAACAAAATTTTTATGGCCATTCCCTTTATCAGAC
CATTAAGGGACTGGCTTCTCGAAGATTGGCGATTCTCAGACAGTGACAATGGATTTTCTCAACTGG
TAGCAGCCGGCTAAACCACTGTGAAAAATGAGTGAACCAATCCGCCACAGTCAGCAGTATTT
CCTGACGGTCTCCTGGTGACCACTGGGTAAGCACAGGCAACCACTGCAGCAAAAGCCATATAATAATC
ATTCTGAAATGTCTGACCTTTTAAAAGGAAAGAATCAAAGTATGAGGGGAAATGGCAGAAAACAGTATCA
AGATTCACCTAATCAAAGAAAAGAACAAATGGGCTTCAGCCAGCAAAGCAGCAGAAATCTTTGATGAAG
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GCTCCAGTGAAGACCAGTTGCTAGAACATGCTGAGGGACAGCCCGTGGCATGTAATGGACATTGCAAGTT
CCCCTTTTCATCCAGAGCCTTTTGGAGTTCAAGTTTGAACATAATGCTATAATGAAAATCTTGGACCTT
TGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152624 unedited
 GGGTGTCAACTTTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGGTCAGTC
 CCCGGCCGCGCGGAGCCGGGATGCACTGTTCTGCTGTGGGTCCTCATCATGGAGACCAA
 ACGGGTGGAGATCCCAGCAGCGTCTGGACGATCTCTGCAGCCGATTTATTTTGCATAT
 TCCCAGCGAGGAAAGAGACAATGCAATCCGAGTGTGTTTTTCAGATTGAACTTGCCATTG
 GTTTTACTTGGATTTCTACATGCAGAACACACCAGGATTACCTCAGTGTGGGATAAGAGA
 CTTTGCTAAAGCTGTCTTCAGTCATTGTCCGTTTTTGTGCTCAAGGTGAAGATGTGGA
 AAAAGTTTTGGATGAATGGAAGGAATATAAAATGGGAGTACCAACATATGGTGCAATTAT
 TCTTGATGAGACACTTAAAAATGTACTACTGGTTCAGGGGTACCTAGCAAATCAGGCTG
 GGGATTTCCAAAAGGAAAAGTAAATAAAGAAGAAGCTCCTCATGATTGTGCTGCTAGAGA
 GGTCTTTGAAGAACTGGTTTTGATATCAAAGACTATATTTGTAAGGATGATTACATTGA
 ACTTCGAATCAATGACCAGCTTTGCTCGTTTGTACATCATTCCAGGAATCCAAAAGACA
 CAAAATTAACCCAAAACTAGAAGAGAAATTCGGAACATTGAGTGGTCTCTATTGAGA
 AATTGCCTTGTACATAGAAATGATATGACCCCAAATCCAACTTGGTTTGGCACCTAACA
 AATTTTTATGGGCCATTCCCTTTATCAGACCCATTAAGGACTGGCTTTCTCGAAGATTG
 GCGATTCTCAGAAGTGACAATGGATTNCTCACTGGTAGCACGCCGCTAAACCCTGTG
 GAANAATGAGTCGACCAATTCGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152624 unedited
 GTTACAGCTATGNNACCGCGCCGCAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTTGGT
 AGTGAAATGTTTTAATGCACACATGCACTCAGACCTTAACCTTTCTATAGGATAACAATA
 TGGTGACTTTTATAGAAGAATCTAATTCCTATAGTAGGAGGCTGTTATTTACTCAGATTT
 GAATTCCTTTTATTTGACATTACATACAAATTACTAAAGCCTTAATAAGGAAAAGTACCA
 ATTCAATCTTACAGCATAAAAATTACTTTTATTATATGTCTTCATTAGCTATACTTACTAA
 TTGATATTTAATAGAAAAATAACGATATTCAAAGCTCAGAACAGCAAGTAGTAACCACAA
 TTCTTTGACAGCACTGGGAGACTTTCTTTATACATGAATACAAAAATCCAACCTTCATT
 TTCCAACATCTTTAATCAAATTTCACTCACACTATATGAGTTCTATTAGTTTCTCAGGCC
 TCTCCAATGCTCATGTCTCAGGAGGGTATCACTATTTGAAATCCTAAACCATTTCATTG
 CTACTTCTTAACAAAAATTTTTGAAAAGCATGTAACCACACCCTTATCTTTTGGATTAC
 AATGGTTAGGTACAAAAACAATTCATTTAGCATCTTATAAATCATTAAAGGTATACATAA
 AAGCACCTACAAAATTTTTAAAAATAAAGATTACAGTGCCTGGCACTTGGAAACATA
 TNAAGTTGGAACCGTACATTTAAAAAGTGAATTCGAAGCTGTATCTCTCTCAAGACCT
 TAAACCTTATGAAGCAAACCAATTCCTTTTCTAATTTACATCTTAAATGCGCCCTCCCT
 AAAAGTTAATGATTGGCATTTCGCCAAACCCCTTAAACCTGGGTTCCTAAACCACACCA
 AT

Restriction Sites:

NotI-NotI

ACCN:

NM_152624

Insert Size:

4700 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_152624.4](#), [NP_689837.2](#)

RefSeq Size: 10198 bp

RefSeq ORF: 1263 bp

Locus ID: 167227

UniProt ID: [Q8IU60](#)

Cytogenetics: 5q22.2

Domains: NUDIX, DCP2

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]
Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.