

## Product datasheet for **MC211089**

### Dcp2 (NM\_027490) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dcp2 (NM_027490) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dcp2
Synonyms:	2410015D23Rik; 5730537H01Rik; AL118268
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC211089 representing NM_027490 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGCCCAAACGCCTGGAGATCCCAGGAGCGTCTGGATGATCTCTGCAGCCGATTTATTTGCATA  
TTCCCAGTGAAGAAAGAGACAATGCGATCCGAGTGTGCTTCCAGATTGAAGTCCGATTTGTTTACTT  
GGATTTCTACATGCAGAACACACCAGGATTACCTCAGTGGGATAAGAGACTTTGCCAAAGCTGTTTTT  
AGTCACGTCCATTTCTGCTGCCACAAGGTGAAGATGTGAAAAGATTTGGATGAATGGAAGGAATATA  
AAATGGGAGTCCCGACTACGGTCAATTATTCTCGATGAGACACTGGAGAATGTACTGCTGGTTCAGGG  
GTACCTGGCAAAGTCAGGCTGGGGATCCCAAAAGGAAAAGTAAATAAAGAAGAGGCGCCTCATGACTGT  
GCGGCGAGAGAGGTCTTCGAGGAACTGGTTTTGATATAAAAGACTATATTTGTAAGGATGATTACATTG  
AACTGCGAATCAATGACCAGCTTGTCTGCTTGTACATCATTCCAGGAGTCCCAAAAGACACAAAATTTAA  
CCCCAAAACCAGAAGAGAAATAGGAATATTGAGTGGTTCTCCATTGAGAAATGCCCTGTCATAGAAAT  
GACATGACTCCCAAGTCCAAGCTTGGCTTGGCACCTAATAAGTTTTTTATGGCCATTCCCTTTATCAGAC  
CACTAAGGGACTGGCTGTCTCGAAGATTTGGAGATTCCTCGACAGTGACAATGGGTTTTCTCAGCTGG  
TAGCACACCAGCTAGACCCCGTGGAGAAATTGAGTCAACAAAATTCGCCACAGCCAGCAGCTGTTT  
CCTGAAGTTCCCGAGTGACCAGTGGGTTAAGCACCGGAGCCACTGCAGCAGAAGTCACACAGTAACC  
ACGGGGAGGTGTCGGACCTTCTCAAAGCAAAGAATCAAAATATGAGAGGGAAATGGCAGAAAACAGTATCA  
AGACTCACCTAATCAAAGAAGAGAGCGAACGGAGTCCATGGTACGCCGCAAAGCAGCAGAAATCCCTTG  
GTGAAATGTGAAAAGAAGCTGCATCCACGGAACTTCAGGACAACCTCGAGACAGATGCCACATGTGACC  
TGCTTGTCTGGTGAAGAGCCGTCGGTAGAACATGCTGAGGGACATTCTGTGGCATGCAACGGACATTG  
CAAGTTCCATTTTCATCCAGAGCCTTTCTGAGTTTCAAGTTTGACCAAAATGCTATAATGAAAATCTTG  
GACCTTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_027490
<b>Insert Size:</b>	1269 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_027490.1</a> , <a href="#">NP_081766.1</a>
<b>RefSeq Size:</b>	8643 bp
<b>RefSeq ORF:</b>	1269 bp
<b>Locus ID:</b>	70640
<b>UniProt ID:</b>	<a href="#">Q9CYC6</a>
<b>Cytogenetics:</b>	18 B3
<b>Gene Summary:</b>	<p>Decapping metalloenzyme that catalyzes the cleavage of the cap structure on mRNAs (PubMed:21070968). Removes the 7-methyl guanine cap structure from mRNA molecules, yielding a 5'-phosphorylated mRNA fragment and 7m-GDP (PubMed:21070968). Necessary for the degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay (By similarity). Plays a role in replication-dependent histone mRNA degradation (By similarity). Has higher activity towards mRNAs that lack a poly(A) tail (PubMed:21070968). Has no activity towards a cap structure lacking an RNA moiety (PubMed:21070968). [UniProtKB/Swiss-Prot Function]</p>