

## Product datasheet for **RC231368**

### CRMP2 (DPYSL2) (NM\_001197293) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CRMP2 (DPYSL2) (NM_001197293) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPYSL2
Synonyms:	CRMP-2; CRMP2; DHPRP2; DRP-2; DRP2; N2A3; ULIP-2; ULIP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC231368 representing NM\_001197293  
 Red=Cloning site Blue=ORF Green=Tags(s)

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 C

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**Protein Sequence:** >RC231368 representing NM\_001197293  
Red=Cloning site Green=Tags(s)

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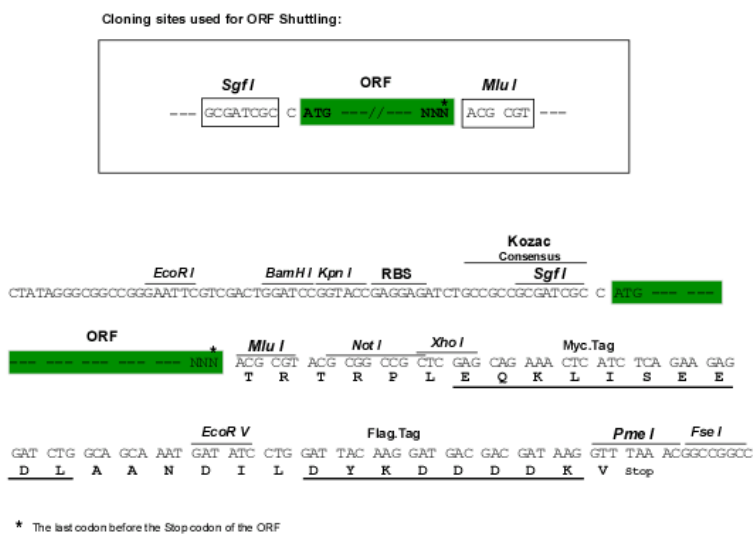
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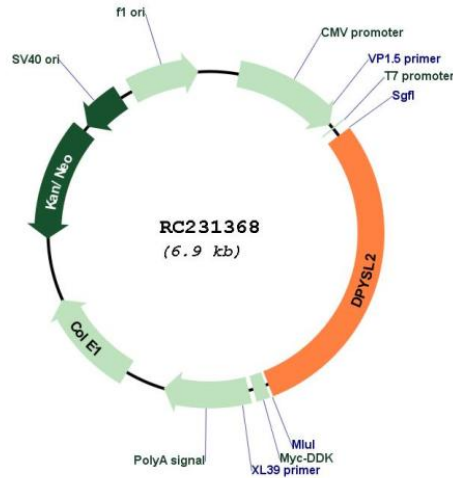
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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8072\\_e01.zip](https://cdn.origene.com/chromatograms/mk8072_e01.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001197293

**ORF Size:** 2031 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001197293.3](#)

**RefSeq ORF:** 2034 bp

**Locus ID:** 1808

**UniProt ID:** [Q16555](#)

**Cytogenetics:** 8p21.2

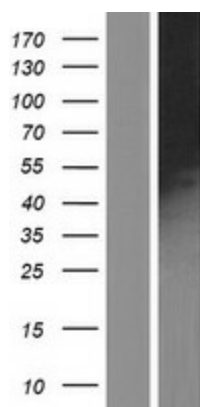
**Protein Families:** Druggable Genome

**Protein Pathways:** Axon guidance

**MW:** 74 kDa

**Gene Summary:** This gene encodes a member of the collapsin response mediator protein family. Collapsin response mediator proteins form homo- and hetero-tetramers and facilitate neuron guidance, growth and polarity. The encoded protein promotes microtubule assembly and is required for Sema3A-mediated growth cone collapse, and also plays a role in synaptic signaling through interactions with calcium channels. This gene has been implicated in multiple neurological disorders, and hyperphosphorylation of the encoded protein may play a key role in the development of Alzheimer's disease. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY434367]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231368 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).