

## Product datasheet for **RG231368**

### 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:	TurboGFP
Symbol:	CRMP2
Synonyms:	CRMP-2; CRMP2; DHPRP2; DRP-2; DRP2; N2A3; ULIP-2; ULIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG231368 representing NM\_001197293  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGAGAGAAAGCAATCCGGGAAGGCGGCAGAGGACGAAGAGTCCCTGCTTTTTTTAAAAACCTGG  
 GCTCCGGCAGCCCAAGCCCGGCAGAAATTCTGTGGCATGTTCTGCCCGGTGGAAGGGTCTCGGAGAA  
 CAAGACCATCGACTTCGACTCGCTGTGGTGGCCGGGGCTCGGGGCAGGTGGTGGCTCAGCAGCGGGAC  
 GTCGCCCACTTGGGCCCGGACCCGACGCCCGTACTCGCGGCAGGGCCGGCGCGCCGGGAGAGCCAT  
 CTGTTGAATCGGGCCGGAAGGTGGAGATCCGGAGGGCCTCGGGCAAGAAGCCCTGCAGAACATCAACGA  
 CCAGAGCGATCGTCTTCTGATCAAAGGAGGTAATTTGTTAATGATGACCACTCGTTCTATGCAGACATA  
 TACATGGAAGATGGGTTGATCAAGCAAATAGGAGAAAACTGATTGTGCCAGGAGGAGTGAAGACCATCG  
 AGGCCCACTCCCGGATGGTATCCCGGAGGAATTGACGTCCACACTCGTTTCCAGATGCCTGATCAGGG  
 AATGACGTCTGCTGATGATTTCTTCCAAGGAACCAAGGCGGCCCTGGCTGGGGAAACCACTATGATCATT  
 GACCACGTTGTTCTGAGCCTGGGACAAGCCTGCCTCGCTGCCCTTTGACCACTGGAGGGAATGGGCCGACA  
 GCAAGTCTGCTGTGACTACTCTCTGCATGTGGACATCAGCGAGTGGCATAAGGGCATCCAGGAGGAGAT  
 GGAAGCGCTTGTGAAGGATCACGGGTAATTCCTTCTCGTGTACATGGCTTTCAAAGATCGTTCACG  
 CTAACGGATTGCCAGATTTATGAAGTACTGAGTGTGATCCGGGATATTGGCGCCATAGCCCAAGTCCACG  
 CAGAAAATGGCGACATCATTGCAGAGGAGCAGCAGAGGATCCTGGATCTGGGCATCAGGGCCCCGAGGG  
 ACATGTCTGAGCCGACCTGAGGAGGTGAGGCCGAAGCCGTGAATCGTGCCATCACCATCGCCAACCGAG  
 ACCAACTGCCCGCTGTATATCACAAGGTGATGAGCAAAGCTCTGCTGAGGTGATCGCCAGGCACGGA  
 AGAAGGGAACGTGGTGTATGGCGAGCCCATCACTGCCAGCTTGGGAACGACGGCTCCATTACTGGAG  
 CAAGAAGTGGCCAAGGCTGCTGCCTTTGTCACCTCCCCACCCTTGAGCCCTGATCCAACCACTCCAGAC  
 TTTCTCAACTCCTTGCTGTCTGTGGAGACCTCCAGGTACGGGCAAGTGGCCATTGCACGTTTAACACTG  
 CCCAGAAGGCTGTAGGAAAGGACAACCTCACCCCTGATTCGGAGGGCACCAATGGCACTGAGGAGCGGAT  
 GTCCGTCATCTGGGACAAGGCTGTGGTCACTGGGAAGATGGATGAGAACCAGTTTGTGGCTGTGACCAGC  
 ACCAATGCAGCCAAAGTCTTCAACCTTTACCCCGGAAAGGCCGATTGCTGTGGGATCCGATGCCGACC  
 TGGTCATCTGGGACCCCGACAGCGTTAAAACCATCTCTGCCAAGACACACAACAGCTCTCTCGAGTACAA  
 CATCTTTGAAGGCATGGAGTGCCGCGCTCCCCACTGGTGGTATCAGCCAGGGGAAGATTGTCCTGGAG  
 GACGGCACCTGCATGTCACCGAAGGCTCTGGACGCTACATTCCCCGGAAGCCCTTCCCTGATTTTGT  
 ACAAGCGTATCAAGGCAAGGAGCAGGCTGGCTGAGCTGAGAGGGTTCTCGTGGCCTGTATGACCGACC  
 TGTGTGTGAAGTGTCTGTGACGCCAAGACAGTCACTCCAGCCTCCTCGGCCAAGACGTCTCCTGCCAAG  
 CAGCAGGCCCCACCTGTCCGGAACCTGCACCAGTCTGGATTTCAGTTTGTCTGGTGTCTAGATTGATGACA  
 ACATTCGCCCGCCGACCAACCCAGCGTATCGTGGCGCCCCCGGTGGCCGTGCCAACATCACCAGCCTGGG  
 C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231368 representing NM\_001197293  
 Red=Cloning site Green=Tags(s)

MAERKQSGKAAEDEVPAFFKNLGSGSPKPRQKFCGMFCPVEGSSSENKTIDFDLSVGRGSGQVVAQQRD  
 VAHLGPDPPYSRQGRRAGGEPVSEGRKVEIRRASGKEALQNINDQSDRLLIKGGKIVNDDQSFYADI  
 YMEDGLIKQIGENLIVPGGVKTEAHSRMVIPGGIDVHTRFQMPDQGMTSADDFQGTAAALAGTTMII  
 DHVVPEPGTSLLAAFDQWREWADSKSCCDYSLHVDISEWHKGIQEEMEALVKDHGVNSFLVYMAFKDRFQ  
 LTDCQIYEVLVIRDIGAIAQVHAENGDI AEEQQRILDLGITGPEGHVLSRPEEVEAEAVNRAITIANQ  
 TNCPLYITKVMKSSAEVIAQARKKGTVVYGEPI TASLGTDGSHYWSKNWAKAAAFVTSPLSPDPTTPD  
 FLNLLSCGDLQVTGSAHCTFNTAQKAVGKDNFTLIPEGTNGTEERMSVIWDKAVVTGKMDENQFVAVTS  
 TNAAKVFNLYPRKGRIAVGSDADLVIWDPDSVKTISAKTHNSSLEYNIFEGMECRGSPLVVISQGKIVLE  
 DGTLHVTEGSGRYIPRKPFPDFVYKRIKARSRLAELRGVPRGLYDGPVCEVSVTPKTVTPASSAKTSPAK  
 QQAPPVRNLHQSGFSLSGAQIDDNIPRRTTQRIVAPPGGRANITSLG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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\\_001197293.1](#), [NP\\_001184222.1](#)

**RefSeq Size:** 4655 bp

**RefSeq ORF:** 2034 bp

**Locus ID:** 1808

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

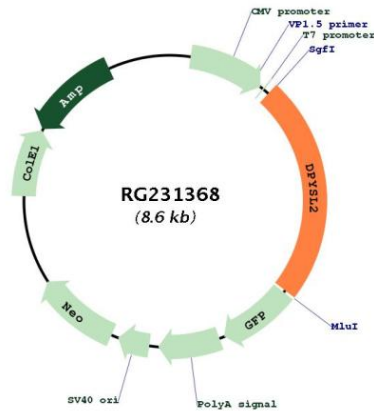
**Cytogenetics:** 8p21.2

**Protein Families:** Druggable Genome

**Protein Pathways:** Axon guidance

**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:**


Circular map for RG231368