

Product datasheet for **RG232947**

CRMP2 (DPYSL2) (NM_001244604) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRMP2 (DPYSL2) (NM_001244604) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPYSL2
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:

>RG232947 representing NM_001244604
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGATGGTTGATCAAGCAATAGGAGAAAATCTGATTGTGCCAGGAGAGTGAAGACCATCGAGG
 CCCACTCCGGATGGTGATCCCCGGAGGAATTGACGTCCACACTCGTTTCCAGATGCCTGATCAGGGAA
 GACGTCTGCTGATGATTTCTTCCAAGGAACCAAGCGGCCCTGGCTGGGGGAACCACTATGATCATTGAC
 CACGTTGTTCTGAGCCTGGGACAAGCCTGCTCGCTGCCTTTGACCAGTGGAGGAATGGGCCGACAGCA
 AGTCTGCTGTGACTACTCTCTGCATGTGGACATCAGTGAGTGGCATAAGGGCATCCAGGAGGAGATGGA
 AGCGCTTGTGAAGGATCACGGGGTAAATTCCTTCTCGTGTACATGGCTTTCAAAGATCGCTTCCAGCTA
 ACGGATTGCCAGATTTATGAAGTACTGAGTGTGATCCGGGATATTGGCGCCATAGCCAAGTCCACGACG
 AAAATGGCGACATCATTGCAGAGGAGCAGCAGAGGATCCTGGATCTGGGCATCACGGGCCCGAGGGACA
 TGTGCTGAGCCGACCTGAGGAGTGCAGGCCGAAGCCGTGAATCGTGCCATCACCATCGCCAACCCAGACC
 AACTGCCCGCTGTATATACCAAGGTGATGAGCAAAAGCTCTGCTGAGGTTCATCGCCAGGCACGGAAGA
 AGGAACTGTGGTGTATGGCGAGCCATCACTGCCAGCTTGGGAACGGACGGCTCCCATTACTGGAGCAA
 GAACTGGGCAAGGCTGCTGCCTTTGTCACCTCCCCACCCTTGAGCCCTGATCCAACCACTCCAGACTTT
 CTCAACTCCTTGCTGTCTGTGGAGACCTCCAGGTACGGGCAGTGGCCATTGCACGTTTAACTGCC
 AGAAGGCTGTAGGAAAGGACAACCTCACCTGATTCGGAGGGCACCATGGCACTGAGGAGCGGATGTC
 CGTCATCTGGGACAAGGCTGTGGTCACTGGGAAGATGGATGAGAACCAGTTTGTGGCTGTGACAGCACC
 AATGCAGCCAAAGTCTTCAACCTTACCCCGGAAAGGCCGATTGCTGTGGATCCGATGCCGACCTGG
 TCATCTGGGACCCGACAGCGTTAAAACCATCTCGCAAGACACACAACAGCTCTCTCGATACAACAT
 CTTTGAAGGCATGGAGTGCAGCGGCTCCCACTGGTGGTTCATCAGCCAGGGGAAGATTGCTCTGGAGGAC
 GGCACCCTGCATGTCACCGAAGGCTCTGGACGCTACATTCGCCGAAGCCCTTCCCTGATTTTGTTTACA
 AGCGTATCAAGGCAAGGAGCAGGCTGGCTGAGCTGAGAGGGGTTCTCGTGGCCTGTATGACGGACCTGT
 GTGTGAAGTGTCTGTGACGCCAAGACAGTCACTCCAGCCTCCTCGGCCAAGACGCTCCTGCCAAGCAG
 CAGGCCACCTGTCCGGAACCTGCACAGTCTGGATTAGTTTGTCTGGTGTCTCAGATTGATGACAACA
 TCCCCCGCCACCACCCAGCGTATCGTGGCGCCCCCGGTGGCCGTGCCAACATCACCAGCCTGGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232947 representing NM_001244604
 Red=Cloning site Green=Tags(s)

MEDGLIKQIGENLIVPGGVKTI EAHSRMVIPGGIDVHTRFQMPDQGMTSADDFQGTKAALAGGTTMIID
 HVVPEPGTSLLA AFDQWREWADSKSCCDYSLHVDISEWHKGIQEEMEALVKDHGVNSFLVYMAFKDRFQL
 TDCQIYEVLSVIRDIGAI AQVHAENGDI IAEQQRILDLGITGPEGHVLSRPEEVEAEAVNRAITIANQT
 NCPLYITKVMSSAEVIAQARKKGTVVYGEPI TASLGTGSHYWSKNWAKAAAFVTSPLSPDPTTDF
 LNSLLSCGDLQVTGSAHCTFNQAQAVGKDNFTL IPEGTNGTEERMSVIWDKAVVTGKMDENQFVAVTST
 NAAKVFNL YPRKGRIAVGSDADLVIWDPDSVKTISAKTHNSSLEYNIFEGMECRGSPLVVISQKIVLED
 GTLHVTEGSGRYIPRKPFDFVYKRIKARSRLAELRGVPRGLYDGPVCEVSVTPKTVTPASSAKTSPAKQ
 QAPPVRNLHQSGFSLSGAQIDDNIPRRTQRI VAPPGRANITSLG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001244604
ORF Size:	1608 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_001244604.2
RefSeq Size:	4297 bp
RefSeq ORF:	1611 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]