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Product datasheet for SC126729

CRMP2 (DPYSL2) (NM_001386) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRMP2 (DPYSL2) (NM_001386) Human Untagged Clone
Tag:	Tag Free
Symbol:	CRMP2
Synonyms:	CRMP-2; CRMP2; DHPRP2; DRP-2; DRP2; N2A3; ULIP-2; ULIP2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC126729 sequence for NM_001386 edited (data generated by NextGen Sequencing)

ATGTCTTATCAGGGGAAGAAAAATATTCCACGCATCACGAGCGATCGTCTTCTGATCAAA
GGAGGTAAAATTGTTAATGATGACCAGTCGTTCTATGCAGACATATACATGGAAGATGGG
TTGATCAAGCAAATAGGAGAAAATCTGATTGTGCCAGGAGGAGTGAAGACCATCGAGGCC
CACTCCCGGATGGTGATCCCCGGAGGAATTGACGTCCACACTCGTTTCCAGATGCCTGAT
CAGGGAATGACGTCTGCTGATGATTTCTTCCAAGGAACCAAGGCGGCCCTGGCTGGGGGA
ACCACTATGATCATTGACCACGTTGTTCCTGAGCCTGGGACAAGCCTGCTCGCTGCCTTT
GACCAGTGGAGGGAATGGGCCGACAGCAAGTCCTGCTGTGACTACTCTCTGCATGTGGAC
ATCAGCGAGTGGCATAAGGGCATCCAGGAGGAGATGGAAGCGCTTGTGAAGGATCACGGG
GTAAATTCCTTCCTCGTGTACATGGCTTTCAAAGATCGCTTCCAGCTAACGGATTGCCAG
ATTTATGAAGTACTGAGTGTGATCCGGGATATTGGCGCCATAGCCCAAGTCCACGCAGAA
AATGGCGACATCATTGCAGAGGAGCAGCAGAGGATCCTGGATCTGGGCATCACGGGCCCC
GAGGGACATGTGCTGAGCCGACCTGAGGAGGTCGAGGCCGAAGCCGTGAATCGTGCCATC
ACCATCGCCAACCAGACCAACTGCCCGCTGTATATCACCAAGGTGATGAGCAAAAGCTCT
GCTGAGGTCATCGCCCAGGCACGGAAGAAGGGAACTGTGGTGTATGGCGAGCCCATCACT
GCCAGCTTGGGAACGGACGGCTCCCATTACTGGAGCAAGAACTGGGCCAAGGCTGCTGCC
TTTGTCACCTCCCCACCCTTGAGCCCTGATCCAACCACTCCAGACTTTCTCAACTCCTTG
CTGTCCTGTGGAGACCTCCAGGTCACGGGCAGTGCCCATTGCACGTTTAACACTGCCCAG
AAGGCTGTAGGAAAGGACAACTTCACCCTGATTCCGGAGGGCACCAATGGCACTGAGGAG
CGGATGTCCGTCATCTGGGACAAGGCTGTGGTCACTGGGAAGATGGATGAGAACCAGTTT
GTGGCTGTGACCAGCACCAATGCAGCCAAAGTCTTCAACCTTTACCCCCGGAAAGGCCGC
ATTGCTGTGGGATCCGATGCCGACCTGGTCATCTGGGACCCCGACAGCGTTAAAACCATC
TCTGCCAAGACACACAACAGCTCTCTCGAGTACAACATCTTTGAAGGCATGGAGTGCCGC
GGCTCCCCACTGGTGGTCATCAGCCAGGGGAAGATTGTCCTGGAGGACGGCACCCTGCAT
GTCACCGAAGGCTCTGGACGCTACATTCCCCGGAAGCCCTTCCCTGATTTTGTTTACAAG
CGTATCAAGGCAAGGAGCAGGCTGGCTGAGCTGAGAGGGGTTCCTCGTGGCCTGTATGAC
GGACCTGTGTGTGAAGTGTCTGTGACGCCCAAGACAGTCACTCCAGCCTCCTCGGCCAAG
ACGTCTCCTGCCAAGCAGCAGGCCCCACCTGTCCGGAACCTGCACCAGTCTGGATTCAGT
TTGTCTGGTGCTCAGATTGATGACAACATTCCCCGCCGCACCACCCAGCGTATCGTGGCG
CCCCCCGGTGGCCGTGCCAACATCACCAGCCTGGGCTAG

Clone variation with respect to NM_001386.5
426 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001386 unedited
TTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGCCTGTTTCTCTCTCTC
CTTCTCTCTCTCTCTCTCTCTCTTTTTTTTCCGCCCTAGCTGGGGCTGTGTTGGAGGA
GAGGAAGAAAGAGAGACAGAGGATTGCATTCATCCGTTACGTTCTTGAAATTTCCTAATA
GCAAGACCAGCGAAGCGGTTGCACCCTTTTCAATCTTGCAAAGGAAAAAAACAAAACAAA
ACAAAAAAAACCCAAGTCCCCTTCCCGGCAGTTTTTGCCTTAAAGCTGCCCTCTTGAAAT
TAATTTTTTCCCAGGAGAGAGATGTCTTATCAGGGGAAGAAAAATATTCCACGCATCACG
AGCGATCGTCTTCTGATCAAAGGAGGTAAAATTGTTAATGATGACCAGTCGTTCTATGCA
GACATATACATGGAAGATGGGTTGATCAAGCAAATAGGAGAAAATCTGATTGTGCCAGGA
GGAGTGAAGACCATCGAGGCCCACTCCCGGATGGTGATCCCCGGAGGAATTGACGTCCAC
ACTCGTTTCCAGATGCCTGATCAGGGAATGACGTCTGCTGATGATTTCTTCCAAGGAACC
AAGGCGGCCCTGGCTGGGGGACCACTATGATCATTGACCACGTTGNTCCTGAGCCTGGNG
ACAGCCTGCTCGCTGCCTTTGACCAGTGGAGGGAATGGGCCGACAGCAAGTCCTGCTGTG
ACTACTCNTCTGCATGTGGACATCAAGCGAGTGGCATAAGGGCATNNCAGAGGAGATGGA
ANNCGCTGTGGAGGATCCACGGGGTAATTCTTCCCTCGGGACATGGCTTTACAAGATCGC
TTCACTAACGGGATGCCAGATTATGAGNCCTGGGGGTGGATCCGGGGATATGGGGCCCCT
ACCCCAGTTCCCGCAAAAATGGGGACTTCTTTGCAAGAGCGCAAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001386 unedited
TAGCTTTGGACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTGAAACAACCACATTTTGCTTTATTAGGGGTTCCA
TGGGAATATAACACAGAGTTTTTAAGGAATAATAAACCCGAAACTTGGTTTTTACCATAA
TTATTTTGCCATCAAAACAGGGGTTACAAAAAAAAAAGTACTTTTTTGGCTACCCACTTT
ATCAGCTTTAAAACTGAAAGTTCCTCCACTCATGGGGCACAATCACAATTTCCAGGATTA
AAAACCATTTATTTTTAAATCCTACACTGGTTTAAAGCATCAAGGCACTGGAGTTATTCA
GTTCTGAAACACTGGCGATTTATTTTAACATTTACATATGACATTCTTTTAACAGACCCC
CAAAGCAAGCCAACAGGGAAACATGCTTACACAGCCTGGAAAAATCGGCAGGGTTTAACT
TGTTTTTTAAAAAAACAACCCAAACAACCAAAAATTACCCTGACCCGGGTCAGGAAAAAC
AGGAAGACTCAAGGGAATACTAGAGCTGCGAGGGTTTCTTAAAATTGAAACAAAAATTGT
TTTTTTCCAACTTGTTCAAATTTCCTCTAAGGGCAGGGGAGAAAAAAAGCAAAATTTTTA
GGCACCCCATTTTTTTTTTTAAAAGGGCAATTCCCTTTTAAAAACCCAATAAACCACACC
CCCCCAAAACCCCAAACCCCACCCGATTCCCCAAGGCAAAAGGTTAAAAAACAGGGTGGG
GGAGGGAAGACCTACTTTGGGAGGTTTTCACCTTTCAAAACCAAAATGTGGTTAAAAAAA
GCCGGAAAACACAATTGTTTAAAAAACTGAACACCGTTGGAAAAATGGGCACCAATCACA
GGGCGGGGGTTGGCCCAAGGCCCCTTGGGGGAAGGGGCCAAAAGGAGGGGGGTGGGC

Restriction Sites: NotI-NotI

ACCN: NM_001386

Insert Size: 5000 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 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

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_001386.4, NP_001377.1

RefSeq Size: 4567 bp

RefSeq ORF:	1719 bp
Locus ID:	1808
UniProt ID:	Q16555
Cytogenetics:	8p21.2
Domains:	Amidohydro_1
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] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) is shorter and has a distinct N-terminus, compared to 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.