

Product datasheet for **RG210191**

CD2AP (NM_012120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD2AP (NM_012120) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD2AP
Synonyms:	CMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210191 representing NM_012120
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTGACTATATTGTGGAGTATGACTATGATGCTGTACATGATGATGAATTAACATTTCGAGTTGGAG
 AAATCATCAGGAATGTGAAAAAGCTACAGGAGGAAGGGTGGCTGGAAGGAGAACTAAATGGGAGAAGAGG
 AATGTTCCCTGACAATTCGTTAAGGAAATTAAGAAGAGACGGAATTCAGGATGACAGTTTGCCCATC
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 GAATTCAGCCACATCCACAAACCAAAACATTAAGAAGAAGACCAAGAAGCGTCAGTGTAAAGTTCTTTT
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 AAGCCTGAAGTGTAGCTGCAGAGAAGAAATATTTTCTTAAAGCCTGAAGAAAAGGATGAAAAATCAA
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 ACTGGAAGAACTGCGAAAGATTGGAAGAAGAGAAGACAATGAGAAGTAATCTAGAGATGGAATAGAG
 AAGCTGAAAAAGCTGTCTGTCTTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

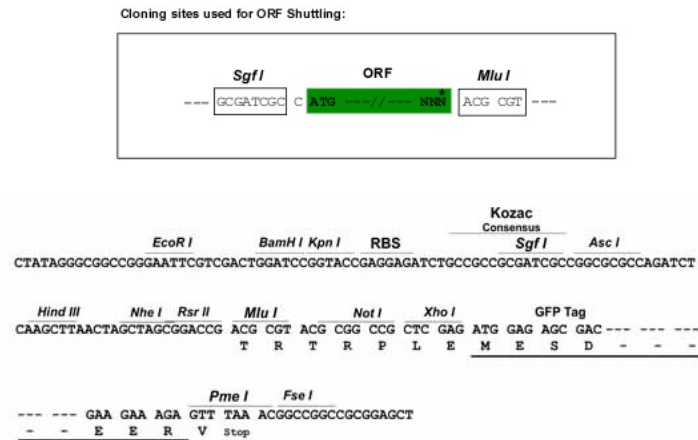
>RG210191 representing NM_012120
 Red=Cloning site Green=Tags(s)

MVDYIVEYDYDAVHDELIRVGEIIRNVKKLQEEGWLEGLNGRRGMFPDNFVKEIKRETEFKDDSLPI
 KRERHGNVASLVQRISTYGLPAGGIQPHPTKNIKKTKKRQCKVLFEYIPQNEDELELVGDIIDINEE
 VEEGWWSGTLNKKLGLFPSNFVKELEVTDGETHEAQDDSETVLGPTSPIPSLGNVSETASGSVTQPKK
 IRGIGFGDIFKEGSVKLRTRTSSSETEKKPEKPLILQSLGPKTQSVEITKTDTEGKIKAKKEYCRTLFAY
 EGTNEDELTFKEGEIHLISKETGEAGWWRGELNGKEGVFPDNFAVQINELDKDFPKPKPPPPAKAPAP
 KPELIAAEKKYFSLKPEEKDEKSTLEQKPSKPAAPQVPPKKPTPPTKASNLLRSSGTVPYKRPKEKPVPPP
 PPIAKINGEVSSISSKFETEPVSKLKLDSQLPLRPKSVDFDSLTVRTSKETDVVNFDDIASSENLLHLT
 ANRPKMPGRRLPGRFNGGHSPHSPHEKILKLKPEEDSANLKPSELKKDTCYSPKPSVYLSTPSSASKANT
 TAFLTPLEIKAKVETDDVKNSLDELRAQIIELLCIVEALKKDHGKELEKLRKDLKEEKTMRNLEMEIE
 KLKKAVLSS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012120

ORF Size: 1917 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

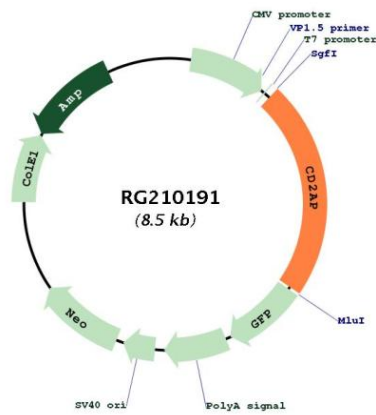
RefSeq: [NM_012120.2](#), [NP_036252.1](#)

RefSeq Size: 5425 bp

RefSeq ORF: 1920 bp

Locus ID:	23607
UniProt ID:	Q9Y5K6
Cytogenetics:	6p12.3
Domains:	SH3
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a scaffolding molecule that regulates the actin cytoskeleton. The protein directly interacts with filamentous actin and a variety of cell membrane proteins through multiple actin binding sites, SH3 domains, and a proline-rich region containing binding sites for SH3 domains. The cytoplasmic protein localizes to membrane ruffles, lipid rafts, and the leading edges of cells. It is implicated in dynamic actin remodeling and membrane trafficking that occurs during receptor endocytosis and cytokinesis. Haploinsufficiency of this gene is implicated in susceptibility to glomerular disease. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210191