OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC115518

CD2AP (NM_012120) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD2AP (NM_012120) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD2AP
Synonyms:	CMS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_012120, the custom clone sequence may differ by one or more nucleotides

ATGGTTGACTATATTGTGGAGTATGACTATGATGCTGTACATGATGATGAATTAACTATTCGAGTTGGAG
AAATCATCAGGAATGTGAAAAAGCTACAGGAGGAAGGGTGGCTGGAAGGAGAACTAAATGGGAGAAGAGG
AATGTTCCCTGACAATTTCGTTAAGGAAATTAAAAGAGAGACGGAATTCAAGGATGACAGTTTGCCCATC
AAACGGGAAAGGCATGGGAATGTAGCAAGTCTTGTACAACGAATAAGCACCTATGGACTTCCAGCTGGAG
GAATTCAGCCACATCCACAAACCAAAAACATTAAGAAGAAGACCAAGAAGCGTCAGTGTAAAGTTCTTTT
TGAGTACATTCCACAAAATGAGGATGAACTGGAGCTGAAAGTGGGAGATATTATTGATATTAATGAAGAG
GTAGAAGAAGGCTGGTGGAGTGGAACCCTGAATAACAAGTTGGGACTGTTTCCCTCAAATTTTGTGAAAG
AATTAGAGGTAACAGATGATGGTGAAACTCATGAAGCCCAGGACGATTCAGAAACTGTTTTGGCTGGGCC
TACTTCACCTATACCTTCTCTGGGAAATGTGAGTGAAACTGCATCTGGATCAGTTACACAGCCAAAGAAA
ATTCGAGGAATTGGATTTGGAGACATTTTTAAAGAAGGCTCTGTGAAACTTCGGACAAGAACATCCAGTA
GTGAAACAGAAGAGAAAAAACCAGAAAAGCCCTTAATCCTACAGTCACTGGGACCCAAAACTCAGAGTGT
GGAGATAACAAAAACAGATACCGAAGGTAAAATTAAAGCTAAAGAATATTGTAGAACATTATTTGCCTAT
GAAGGTACTAATGAAGATGAACTTACTTTTAAAGAGGGGGAGATAATCCATTTGATAAGTAAGGAGACTG
GAGAAGCTGGCTGGTGGAGGGGCGAACTTAATGGTAAAGAAGGAGTATTTCCAGACAATTTTGCTGTCCA
GATAAATGAACTTGATAAAGACTTTCCAAAACCAAAGAAACCACCACCTCCTGCTAAGGCTCCAGCTCCA
AAGCCTGAACTGATAGCTGCAGAGAAGAAATATTTTTCTTTAAAGCCTGAAGAAAAGGATGAAAAATCAA
CACTGGAACAGAAACCTTCTAAACCAGCAGCTCCACAAGTCCCACCCAAGAAACCTACTCCACCTACCAA
AGCCAGTAATTTACTGAGATCTTCTGGAACAGTGTACCCAAAGCGACCTGAAAAACCAGTTCCTCCACCA
CCTCCTATAGCCAAGATTAATGGGGAAGTTTCTAGCATTTCATCAAAATTTGAAACTGAGCCAGTATCAA
AACTAAAGCTAGATTCTGAACAGCTGCCCCTTAGACCAAAATCAGTAGACTTTGATTCACTTACAGTAAG
GACCTCCAAAGAAACAGATGTTGTAAATTTTGATGACATAGCTTCCTCAGAAAACTTGCTTCATCTCACT
GCAAATAGACCAAAGATGCCTGGAAGAAGGTTGCCGGGCCGTTTCAATGGTGGACATTCTCCAACTCACA
GCCCCGAAAAAATCTTGAAGTTACCAAAAGAAGAAGACAGTGCCAACCTGAAGCCATCTGAATTAAAAAA
AGATACATGCTACTCTCCAAAGCCATCTGTGTACCTTTCAACACCTTCCAGTGCTTCTAAAGCAAATACA
ACTGCTTTCCTGACTCCATTAGAAATCAAAGCTAAAGTGGAAACAGATGATGTGAAAAAAAATTCCCTGG
ATGAACTTAGAGCCCAGATTATTGAATTGTTGTGCATTGTAGAAGCACTGAAAAAGGATCACGGGAAAGA
ACTGGAAAAACTGCGAAAAGATTTGGAAGAAGAGAAGACAATGAGAAGTAATCTAGAGATGGAAATAGAG
AAGCTGAAAAAAGCTGTCCTGTCTTCTTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012120 unedited
GTCAAATTTGTATACGACTCCTATAGGGCGGCCGCGAATTCGCACGAGGCAGCATGGTTG
ACTATATTGTGGAGTATGACTATNATGCTGTACATGATGATGAATTAACTATTCGAGTTG
GAGAAATCATCAGGAATGTGAAAAAGCTACAGGAGGAAGGGTGGCTGGAAGGAGAACTAA
ATGGGAGAAGAGGAATGTTCCCTGACAATTTCGTTAAGGAAATTAAAAGAGAGACGGAAT
TCAAGGATGACAGTTTGCCCATCAAACGGGAAAGGCATGGGAATGTAGCAAGTCTTGTAC
AACGAATAAGCACCTATGGACTTCCAGCTGGAGGAATTCAGCCACATCCACAAACCAAAA
ACATTAAGAAGAAGACCAAGAAGCGTCAGTGTAAAGTTCTTTTTGAGTACATTCCACAAA
ATGAGGATGAACTGGAGCTGAAAGTGGGAGATATTATTGATATTAATGAAGAGGTAGAAG
AAGGCTGGTGGAGTGGAACCCTGAATAACAAGTTGGGACTGTTTCCCTCAAATTTTGTGA
AAGAATTAGAGGTAACAGATGATGGTGAAACTCATGAAGCCCAGGACGATTCAAAAACTG
TTTTGGCTGGGCCTACTTCACCTATACCTTCTCTGGGAAATGTGAGTGAAACTGCATCTG
GTTCAGTTACACAGCCAAAGAAAATTCGAGGAATTGGATTTGGAGACATTTTTAAAGAAG
GCTCTGTGANACTTNCGGACAGACATCCAGTAGTGAAACAGAAGAGAAAAACCAGAAAGC
CCTTATCCTACAGTCACTGGGACCCANACTCANAGTGTGGAGATNACANAACAGATACCG
AAGTAAAATTAAGCTAAAGATATTGTAGACATTATTGCTATGANGGTACTAATGAGAGAA
CTACTTTAG

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_012120 unedited
ACATTCAACTGGGCATTATGTAACANNGTTATTGAAAGCAAGTCAGGGTAAAATTTTATA
GCCAAAAATATTCATAGCAGCAACTTTTAAAATATGATTTTATTAAATCAAGTCATTGCA
CTTGGTCATTTTATTGCTACAGCAAAACAAGGCCTTTACATTATAATACTTCTCATTTCT
GATTTAACTGATTGTCTCATTCTGCTCATACATTTCAAGTTTAAATGCAAGCATAAAATG
TTTATCAACAAATCTAGAGAGCACTTGGATTTTTAATTTTTCTGTGATCACAGTAAGGAG
CATAAAAAAGAGTATCTTCTGTTACACAAGGCCTGTTCTCTCTTTACATCTTCAGACTTA
AATTCTGTAGAAGGTAACAGCTTTGTATTAAGACAGAAGCTTAGTGGTCACAAACAAAAA
ATAACACTGAAATACAATTCGGAAATTAATGATACTGTGTGTCTCAAAGAATACCTGAAC
TATACATTCACTAATAATTTGGCAATGAGATTCCATGCTGTTCAACTTTTGTCTTTTATA
CTCACACGTAGAAAAAAAATTCATGATTTACCCCAAGGTTATTATTAAATATCATTTTGT
GATATGAACTNNTAGTATAGAAATTAATACATTTCCCATACCAACAGAAAGTAAAGTGCT
AGAATAAAGGATCATTNTTCCCATCANGCCTGNGTTTGTTTGGGTTTTCTTACTATTTTA
TCAAGGACAGAAAGGGTAAAGTATTTCAGTTACCTTTTCTATTCTGACTGAGGGAGACAC
CAGCAAAAACTTTAAATACATTTCCATGCTCATAAGCATNNCTGATTCATGTACTATTGA
GAAAATGACCACCAAAACTTTAGAACAGCCTGAAACTGCTGNAAACTTCCTCATCCCATA
TAGGATGACCAGGNATCACTTCATNGATTTTCAGGTGAAAAAGCTGAGAATAATNCTAGA
TACAAATTTTTGTTTACCTAGGTTGCCTTAAAGGAAGAGATTATTTTTTTACGAAGAAAT
AATCTTTGCTGNCCTTTACCTTNCCTTTACGAAAGGACATTTA
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Restriction Sites: NotI-NotI

ACCN: NM_012120

Insert Size: 5520 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_012120.1, 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]