

Product datasheet for RC204254

CAVIN3 (NM_145040) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAVIN3 (NM_145040) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAVIN3
Synonyms:	cavin-3; HSRBC; PRKCDBP; SRBC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204254 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGAGAGTGC GTTGGAGCCGGGCTGTGCCGAGGCGCCGGGGGGTCCCGTGCACGCCGTGA
CGGTGGTGACCCTGCTGGAGAAGCTGGCCTCCATGCTGGAGACTCTGCGGGAGCGGCAGGGAGGCCTGGC
TCGAAGGCAGGGAGGCCCTGGCAGGGTCCGTGCCCGCATCCAGAGCGGCCTGGGCGCTCTGAGTCGCAGC
CACGACACCACCAGCAACACCTTGGCGCAGCTGTGGCCAAGGCGGAGCGCTGAGCTCGCACGCCAACG
CCGCCAAAGAGCGCGGTGCGCCGCGCAGCCAGGTGCAGCGGCTGGAGCCAACCACGGGCTGCTGGT
GGCGCGCGGGAAGCTCCACGTTCTGCTCTCAAGGAGGAGGGTGAAGTCCAGCCAGCGCTTCCAGAAG
GCACCAGAGCCCTTGGGCCCGGCGGACAGTCCGAGCTGGGCCAGAGCAGCTGGAGGCCGAAGTTGGAG
AGAGCTCGGACGAGGAGCCGGTGGAGTCCAGGGCCAGCGGCTGCGGCGCACCGGATTGCAGAAGGTACA
GAGCCTCCGAAGGGCCCTTTCGGGCCGAAAGGCCCTGCAGCGCCACCGCCACCCCGGTCAAGCCGCT
CGCCTTGGGCTGGCCGGAGCGCTGAAGCCAGCCGGAAGCCAGCCTGCGCTGGAGCCACGCTGGAGC
CAGAGCCTCCGCAGGACACCGAGGAAGATCCCGGAGACCTGGGGCTGCCGAAGAAGCTCTGCTCCAAT
GGAGAGTGTAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204254 protein sequence
 Red=Cloning site Green=Tags(s)

MRESALEPGVPVEAPAGGPVHAVTVVTLLEKLASMLETLRERQGGGLARRQGGLAGSVRRIQSGLGALSRS
 HDTTSNTLAQLLAKAERVSSHANAQAQERAVRRAAQVQRLEANHGLLVARGKLHVLLFKEEGEVPASAFQK
 APEPLGPADQSELGPEQLEAEVGESSDEEPVESRAQRLRRTGLQKVQSLRRALSGRKGPAAPPPTPVKPP
 RLGPGRSAEAQPEAQPALPTLEPEPPQDTEEDPGRPGAEEALLQMESVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6059_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145040

ORF Size: 783 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.

RefSeq: [NM_145040.1](#)

RefSeq Size: 1039 bp

RefSeq ORF: 786 bp

Locus ID: 112464

UniProt ID: [Q969G5](#)

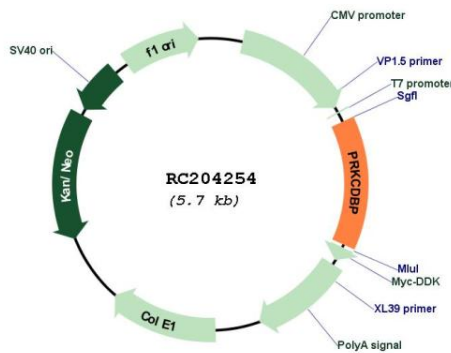
Cytogenetics: 11p15.4

Protein Families: Druggable Genome

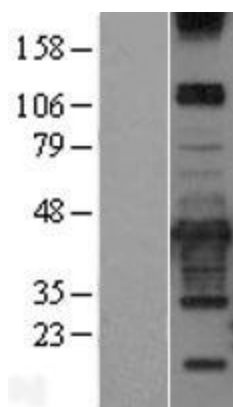
MW: 27.6 kDa

Gene Summary: The protein encoded by this gene was identified as a binding protein of the protein kinase C, delta (PRKCD). The expression of this gene in cultured cell lines is strongly induced by serum starvation. The expression of this protein was found to be down-regulated in various cancer cell lines, suggesting the possible tumor suppressor function of this protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC204254



Western blot validation of overexpression lysate (Cat# [LY403419]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204254 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).