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Product datasheet for RC206794

CABLES1 (NM_138375) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CABLES1 (NM_138375) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CABLES1
Synonyms:	CABL1; CABLES; HsT2563; IK3-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206794 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTTCTAAGAGGGGCTGCCATGCAAGAATATATGCTGATTTTCCCATACGGCGCCTCATCTCCCAGA
GATCTTCCTTGGAGACCCTGGAAGATATTGAGGAGAACGCCCCTCTCCGGAGATGTCGAACTCTCTCAGG
TTCACCCAGACCAAAGAATTTTAAGAAGATTCATTTTATCAAGAACATGCGGCAACACGATACCAGGAAT
GGCAGAATAGTCCTTATCAGTGGCAGAAGATCCTTCTGTAGTATATTTTCAGTGCTGCCGTATCGCGACA
GTACCCAAGTCGGGGACTTGAAGTTGGACGGAGGAAGACAATCAACTGGTGCAGTGAGTTTGAAAGAGAT
CATTGGTCTGGAAGGTGTGGAGCTGGGTGCTGATGGGAAGACTGTTTCCTATACCCAATTTCTGTTACCC
ACAAATGCCTTTGGAGCCCGGAGAAATACCATAGACTCCACCTCCTCTTTCTCCCAGTTCCGTAACCTGA
GCCACCGCAGCCTCTCCATAGGCCGGGCAAGCGGCACCCAGGGGAGCCTCGACACAGGTAGTGACCTGGG
AGACTTTATGGACTATGACCCAAATCTCTTGGATGACCCCCAGTGGCCTTGTGGCAAACACAAACGCGTT
CTGATCTTCCCTTCCTACATGACAACAGTGATTGACTACGTGAAGCCCTCGGATCTCAAGAAGGACATGA
ACGAGACCTTCAAGGAGAAGTTTCCTCACATTAAGCTGACACTCAGCAAAATTAGGAGTCTGAAACGAGA
GATGCGGAAGCTTGCGCAGGAGGACTGTGGCCTTGAGGAGCCCACGGTGGCCATGGCCTTCGTCTACTTT
GAAAAGCTCGCCCTCAAGGGGAAACTCAACAAACAGAACCGGAAGCTGTGTGCTGGGGCATGTGTGCTGT
TAGCAGCCAAAATTGGAAGTGACCTCAAAAAACACGAAGTCAAGCATTTAATTGACAAACTGGAAGAGAA
GTTCCGGCTGAACAGGCGAGAACTGATTGCCTTTGAATTCCCGGTGTTAGTGGCCTTGGAATTCGCCCTC
CACTTGCCCGAGCACGAAGTCATGCCCCACTACAGACGGCTGGTCCAGAGTTCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206794 protein sequence
Red=Cloning site Green=Tags(s)

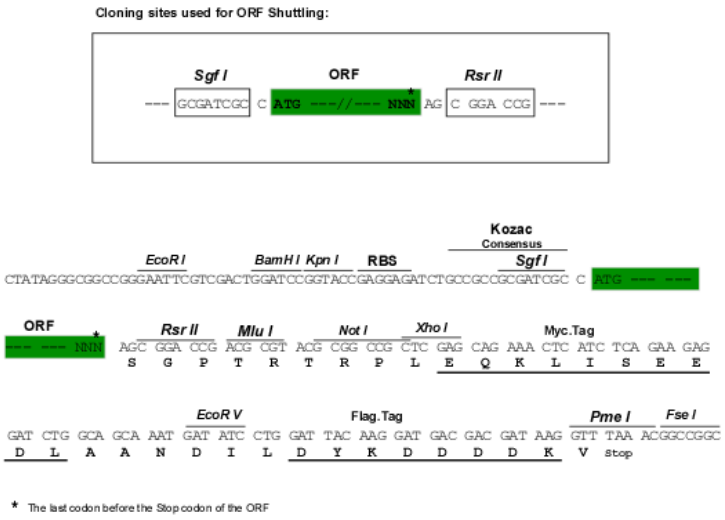
MLSKRGCHARIYADFPIRRLISQRSSLETLEDIEENAPLRRCRTLSGSPRPKNFKKIHFIKNMRQHDTRN
GRIVLISGRRSFCSIFSVLPYRDSTQVGDLKLDGGRQSTGAVSLKEIIGLEGVELGADGKTVSYTQFLLP
TNAFGARRNTIDSTSSFSQFRNLSHRSLSIGRASGTQGSLDTGSDLGDFMDYDPNLLDDPQWPCGKHKRV
LIFPSYMTTVIDYVKPSDLKKDMNETFKEKFPHIKLTLSKIRSLKREMRKLAQEDCGLEEPTVAMAFVYF
EKLALKGKLNKQNRKLCAGACVLLAAKIGSDLKKHEVKHLIDKLEEKFRLNRRELIAFEFPVLVALEFAL
HLPEHEVMPHYRRLVQSS

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6619_a08.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_138375

ORF Size: 1104 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_138375.2

RefSeq Size: 4307 bp

RefSeq ORF: 1107 bp

Locus ID: 91768

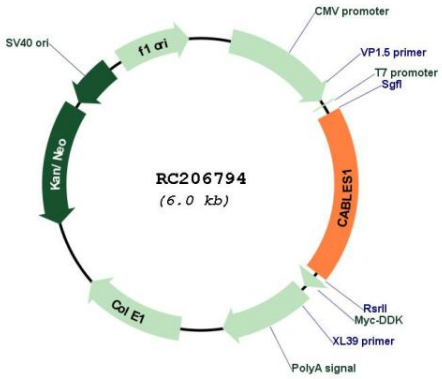
UniProt ID: Q8TDN4

Cytogenetics: 18q11.2

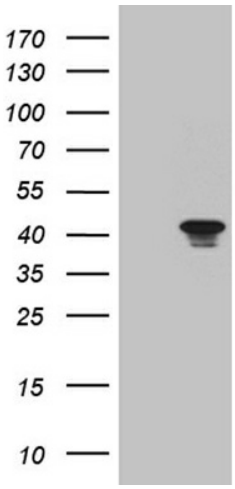
MW: 41.9 kDa

Gene Summary: This gene encodes a protein involved in regulation of the cell cycle through interactions with several cyclin-dependent kinases. One study (PMID: 16177568) reported aberrant splicing of transcripts from this gene which results in removal of the cyclin binding domain only in human cancer cells, and reduction in gene expression was shown in colorectal cancers (PMID: 17982127).Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

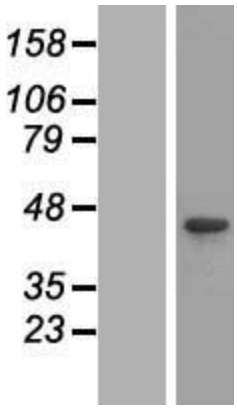
Product images:



Circular map for RC206794



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CABLES1 (Cat# RC206794, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CABLES1(Cat# [TA811422]). Positive lysates [LY408642] (100ug) and [LC408642] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408642]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206794 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).