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 RC201459

PLEK2 (NM_016445) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLEK2 (NM_016445) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLEK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC201459 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGACGGCGTGCTCAAGGAGGGCTTCCTGGTCAAGAGGGGCCACATTGTCCACAACTGGAAGGCGC
GATGGTTCATCCTTCGGCAGAACACGCTGGTGTACTACAAGCTTGAGGGGGGTCGGAGAGTGACCCCTCC
CAAGGGCCGGATCCTCCTGGATGGCTGCACCATCACCTGCCCCTGCCTGGAGTATGAAAACCGACCGCTC
CTCATTAAGCTGAAGACTCAAACATCCACGGAGTACTTCCTGGAGGCCTGTTCTCGAGAGGAGCGGGATG
CCTGGGCCTTTGAGATCACCGGGGCTATTCATGCAGGGCAGCCGGGGAAGGTCCAGCAGCTGCACAGCCT
GAGAAACTCCTTCAAGCTGCCCCCGCACATCAGCCTGCATCGCATTGTGGACAAGATGCACGATAGCAAC
ACCGGAATCCGTTCAAGCCCCAACATGGAGCAGGGAAGCACCTATAAAAAGACCTTCCTCGGCTCCTCCC
TGGTGGACTGGCTCATCTCCAACAGCTTCACGGCCAGCCGTCTGGAGGCGGTGACCCTGGCCTCCATGCT
CATGGAGGAGAACTTCCTCAGGCCTGTGGGTGTCCGAAGCATGGGAGCCATTCGCTCTGGGGATCTGGCC
GAGCAGTTCCTGGATGACTCCACAGCCCTGTACACTTTTGCTGAGAGCTACAAAAAGAAGATAAGCCCCA
AGGAAGAAATTAGCCTGAGCACTGTGGAGTTAAGTGGCACGGTGGTGAAACAAGGCTACCTGGCCAAGCA
GGGACACAAGAGGAAAAACTGGAAGGTGCGTCGCTTTGTTCTAAGGAAGGATCCAGCTTTCCTGCATTAC
TATGACCCTTCCAAAGAAGAGAACAGGCCAGTGGGTGGGTTTTCTCTTCGTGGTTCACTCGTGTCTGCTC
TGGAAGATAATGGCGTTCCCACTGGGGTTAAAGGGAATGTCCAGGGAAACCTCTTCAAAGTGATTACTAA
GGATGACACACACTATTACATTCAGGCCAGCAGCAAGGCTGAGCGAGCCGAGTGGATTGAAGCTATCAAA
AAGCTAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

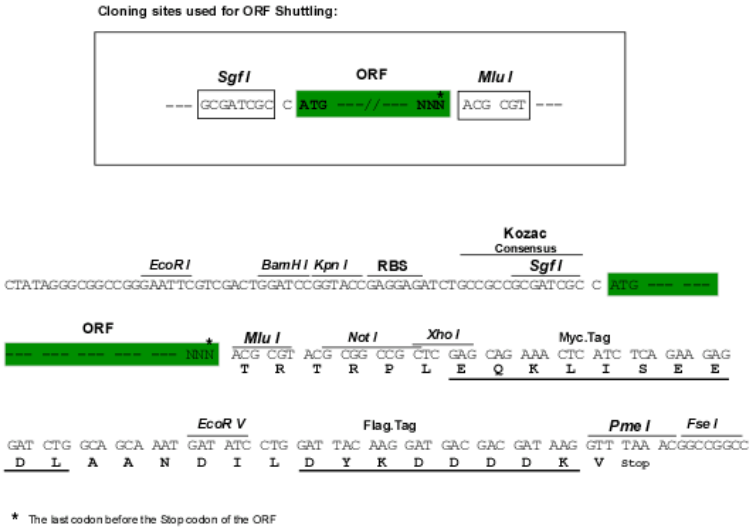
Protein Sequence:

```
>RC201459 protein sequence
Red=Cloning site Green=Tags(s)

MEDGVLKEGFLVKRGHIVHNWKARWFILRQNTLVYYKLEGGRRVTPPKGRILLDGCTITCPCLEYENRPL
LIKLKTQTSTEYFLEACSREERDAWAFEITGAIHAGQPGKVQQLHSLRNSFKLPPHISLHRIVDKMHDSN
TGIRSSPNMEQGSTYKKTFLGSSLVDWLISNSFTASRLEAVTLASMLMEENFLRPVGVRSMGAIRSGDLA
EQFLDDSTALYTFAESYKKKISPKEEISLSTVELSGTVVKQGYLAKQGHKRKNWKVRRFVLRKDPAFLHY
YDPSKEENRPVGGFSLRGSLVSALEDNGVPTGVKGNVQGNLFKVITKDDTHYYIQASSKAERAEWIEAIK
KLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Chromatograms: https://cdn.origene.com/chromatograms/mk6300_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016445

ORF Size: 1059 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.

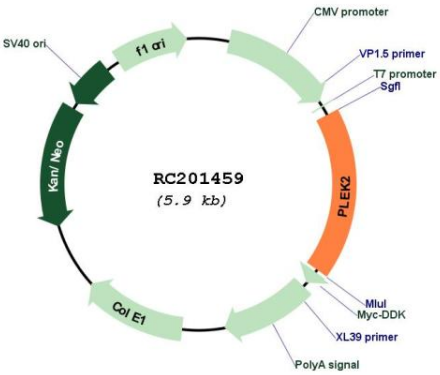
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

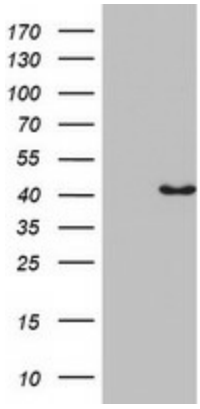
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid 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_016445.3
RefSeq Size:	1479 bp
RefSeq ORF:	1062 bp
Locus ID:	26499
UniProt ID:	Q9NYT0
Cytogenetics:	14q23.3-q24.1
Domains:	DEP, PH
MW:	40 kDa
Gene Summary:	The protein encoded by this gene associates with membrane-bound phosphatidylinositols generated by phosphatidylinositol 3-kinase. The encoded protein then interacts with the actin cytoskeleton to induce cell spreading. In conjunction with complement component 1, q subcomponent, B chain (C1QB), this gene shows an increase in expression in melanoma cells and may serve as an accurate biomarker for the disease. [provided by RefSeq, Dec 2015]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Product images:

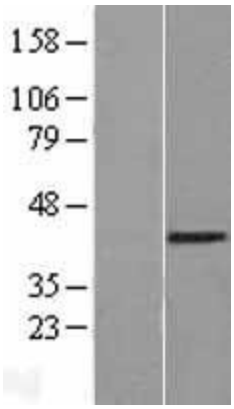


Circular map for RC201459

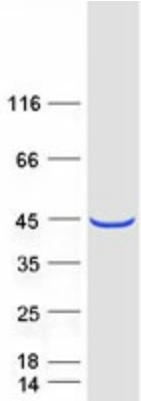


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PLEK2 (Cat# RC201459, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PLEK2(Cat# [TA802769]). Positive lysates [LY413976] (100ug) and [LC413976] (20ug) can be purchased separately from OriGene.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Western blot validation of overexpression lysate (Cat# [LY413976]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201459 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PLEK2 protein (Cat# [TP301459]). The protein was produced from HEK293T cells transfected with PLEK2 cDNA clone (Cat# RC201459) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US