

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 RC201544

Integrin Linked Kinase (ILK) (NM_004517) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin Linked Kinase (ILK) (NM_004517) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Integrin Linked Kinase
Synonyms:	HEL-S-28; ILK-1; ILK-2; P59; p59ILK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

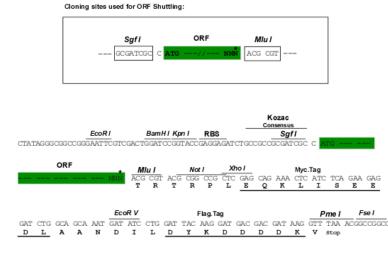


This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	Integrin Linked Kinase (ILK) (NM_004517) Human Tagged ORF Clone – RC201544
ORF Nucleotide Sequence:	<pre>>RC201544 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGACGACATTTTCACTCAGTGCCGGGAGGGCAACGCAGTCGCCGTTCGCCTGTGGCTGGACAACACACGG AGAACGACCTCAACCAGGGGGACGATCATGGCTTCTCCCCCTTGCACTGGGCCTGCCGAGAGGGCCGCTC TGCTGTGGTTGAGATGTTGATCATGCGGGGGGCACGGATCAATGTAATGAACCGTGGGGATGACAACCCCC CTGCATCTGGCAGCCAGTCATGGACACCGTGATATTGTACAGAAGCTATTGCAGTACAAGGCAGACATCA ATGCAGTGAATGAACATGGGAATGTGCCCCTGCACTATGCCTGTTTTTGGGGCCAAGATCAAGTGGCAGA GGACCTGGTGGCAAATGGGGCCCTTGTCAGCATCTGTAACAAGTATGGAGAGATGCCTGTGGACAAAGCC AAGGCACCCCTGAGAGGGCTTCTCCGAGAGCGGGCAGAGAAGATGGGCCAGAATCTCAACCGTATTCCAT ACAAGGACCCTGAGAGGGGACCACCCGCACTCGGCCCCGAAATGGACGGCCAGAATCCTAACCGTATTCCAT ACAAGGACCATTCTGGAAGGGGACCACCCGCACTCGGCCCCGAAATGGAACCCTGAACAACACTCTGG CATTGACTTCAAACAGCTTAACTTCCTGACGAAGCTCGACGAGAACCACTGGAGGCAACAACACTCTGG CGCTGGCAGGGCAATGACATTGTCGTGAAGGTGCTGAAAGATCGACCTGGAGGACCAACGACAGGG CGCTGGCAGGGCAATGACATTGTCGTGAAGGTGCTGAAAGGTCGCAAATGGACCCCGAGGCAAGGACCAGGG CGCTGGCAGGGCAATGACATTGTCGTGAGGATTTTCTCGCATCCAAATGGACTCCCAGTGCTAGGAGGCCCTG CCAGTCTCCACCTGCTCCTCCTCATCCTCATCACACACCTGGATGCCATATGGATGG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence	e: >RC201544 protein sequence Red=Cloning site Green=Tags(s)
	MDDIFTQCREGNAVAVRLWLDNTENDLNQGDDHGFSPLHWACREGRSAVVEMLIMRGARINVMNRGDDTP LHLAASHGHRDIVQKLLQYKADINAVNEHGNVPLHYACFWGQDQVAEDLVANGALVSICNKYGEMPVDKA KAPLRELLRERAEKMGQNLNRIPYKDTFWKGTTRTRPRNGTLNKHSGIDFKQLNFLTKLNENHSGELWKG RWQGNDIVVKVLKVRDWSTRKSRDFNEECPRLRIFSHPNVLPVLGACQSPPAPHPTLITHWMPYGSLYNV LHEGTNFVVDQSQAVKFALDMARGMAFLHTLEPLIPRHALNSRSVMIDEDMTARISMADVKFSFQCPGRM YAPAWVAPEALQKKPEDTNRRSADMWSFAVLLWELVTREVPFADLSNMEIGMKVALEGLRPTIPPGISPH VCKLMKICMNEDPAKRPKFDMIVPILEKMQDK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	
Restriction Sites:	Sgfl-Mlul

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

Cloning Scheme:



* The last codon before the Stop codon of the ORF

NM 004517

1356 bp

ACCN:

ORF Size:

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 <u>custsupport@origene.com</u> 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. <u>More info</u>

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.

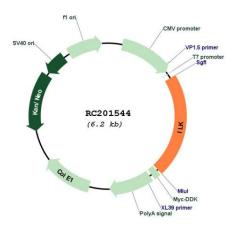
- 3. Close the tube and incubate for 10 minutes at room temperature.
- 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.

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.

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

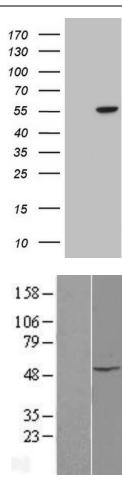
	Integrin Linked Kinase (ILK) (NM_004517) Human Tagged ORF Clone – RC201544
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 004517.4</u>
RefSeq Size:	1843 bp
RefSeq ORF:	1359 bp
Locus ID:	3611
UniProt ID:	<u>Q13418</u>
Cytogenetics:	11p15.4
Domains:	pkinase, TyrKc, ANK, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathway	Endometrial cancer, Focal adhesion, PPAR signaling pathway
MW:	51.4 kDa
Gene Summary:	This gene encodes a protein with a kinase-like domain and four ankyrin-like repeats. The encoded protein associates at the cell membrane with the cytoplasmic domain of beta integrins, where it regulates integrin-mediated signal transduction. Activity of this protein is important in the epithelial to mesenchymal transition, and over-expression of this gene is implicated in tumor growth and metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]

Product images:



Circular map for RC201544

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



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ILK (Cat# RC201544, 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-ILK(Cat# [TA804883]). Positive lysates [LY401438] (100ug) and [LC401438] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY423079]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220505] using transfection reagent 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