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Product datasheet for RC201456

ILKAP (NM_030768) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ILKAP (NM_030768) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ILKAP
Synonyms:	ILKAP2; ILKAP3; PP2C-DELTA; PP2CD; PPM1O
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201456 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCTCTTCGGGGACCTGCCGGAGCCCGAGCGCTCGCCGCGCCCGGCTGCCGGGAAAGAAGCTCAGA
AAGGACCCCTGCTCTTTGATGACCTCCCTCCGGCCAGCAGTACTGACTCAGGATCAGGGGGACCTTTGCT
TTTTGATGATCTCCCACCCGCTAGCAGTGGCGATTCAGGTTCTCTTGCCACATCAATATCCCAGATGGTA
AAGACTGAAGGGAAAGGAGCAAAGAGAAAAACCTCCGAGGAAGAGAAGAATGGCAGTGAAGAGCTTGTGG
AAAAGAAAGTTTGTAAAGCCTCTTCGGTGATCTTTGGTCTGAAGGGCTATGTGGCTGAGCGGAAGGGTGA
GAGGGAGGAGATGCAGGATGCCCACGTCATCCTGAACGACATCACCGAGGAGTGTAGGCCCCCATCGTCC
CTCATTACTCGGGTTTCATATTTTGCTGTTTTTGATGGACATGGAGGAATTCGAGCCTCAAAATTTGCTG
CACAGAATTTGCATCAAAACTTAATCAGAAAATTTCCTAAAGGAGATGTAATCAGTGTAGAGAAAACCGT
GAAGAGATGCCTTTTGGACACTTTCAAGCATACTGATGAAGAGTTCCTTAAACAAGCTTCCAGCCAGAAG
CCTGCCTGGAAAGATGGGTCCACTGCCACGTGTGTTCTGGCTGTAGACAACATTCTTTATATTGCCAACC
TCGGAGATAGTCGGGCAATCTTGTGTCGTTATAATGAGGAGAGTCAAAAACATGCAGCCTTAAGCCTCAG
CAAAGAGCATAATCCAACTCAGTATGAAGAGCGGATGAGGATACAGAAGGCTGGAGGAAACGTCAGGGAT
GGGCGTGTTTTGGGCGTGCTAGAGGTGTCACGCTCCATTGGGGACGGGCAGTACAAGCGCTGCGGTGTCA
CCTCTGTGCCCGACATCAGACGCTGCCAGCTGACCCCCAATGACAGGTTCATTTTGTTGGCCTGTGATGG
GCTCTTCAAGGTCTTTACCCCAGAAGAAGCCGTGAACTTCATCTTGTCCTGTCTCGAGGATGAAAAGATC
CAGACCCGGGAAGGGAAGTCCGCAGCCGACGCCCGCTACGAAGCAGCCTGCAACAGGCTGGCCAACAAGG
CGGTGCAGCGGGGCTCGGCCGACAACGTCACTGTGATGGTGGTGCGGATAGGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC201456 protein sequence
Red=Cloning site Green=Tags(s)

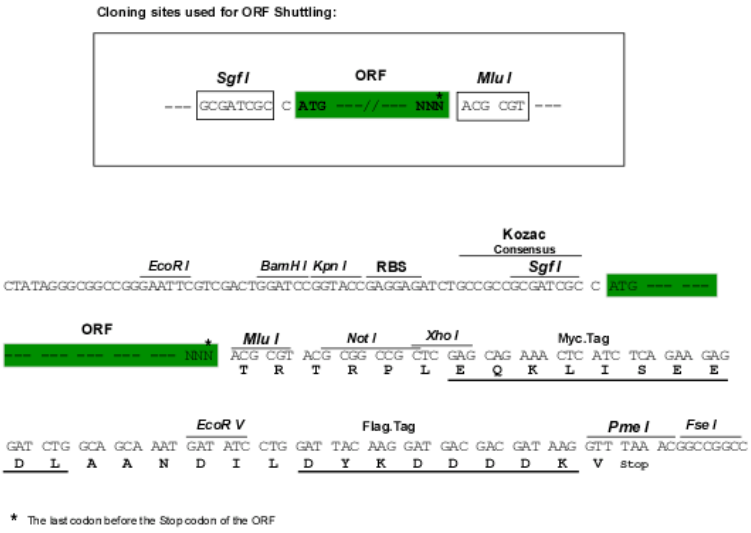
MDLFGDLPEPERSPRPAAGKEAQKGPLLFDDLPPASSTDSGSGGPLLFDDLPPASSGDSGSLATSISQMV
KTEGKGAKRKTSEEEKNGSEELVEKKVCKASSVIFGLKGYVAERKGEREEMQDAHVILNDITEECRPPSS
LITRVSYFAVFDGHGGIRASKFAAQNLHQNLIRKFPKGDVISVEKTVKRCLLDTFKHTDEEFLKQASSQK
PAWKDGSTATCVLAVDNILYIANLGDSRAILCRYNEESQKHAALSLSKEHNPTQYEERMRIQKAGGNVRD
GRVLGVLEVSRSIGDGQYKRCGVTSVPDIRRCQLTPNDRFILLACDGLFKVFTPEEAVNFILSCLEDEKI
QTREGKSAADARYEAACNRLANKAVQRGSADNVTVMVVRIGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6153_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030768

ORF Size: 1176 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_030768.3

RefSeq Size: 1480 bp

RefSeq ORF: 1179 bp

Locus ID: 80895

UniProt ID: Q9H0C8

Cytogenetics: 2q37.3

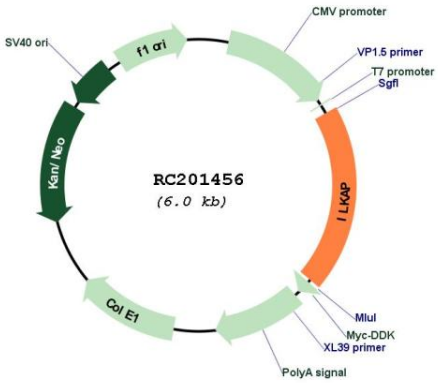
Domains: PP2C

Protein Families: Druggable Genome, Phosphatase

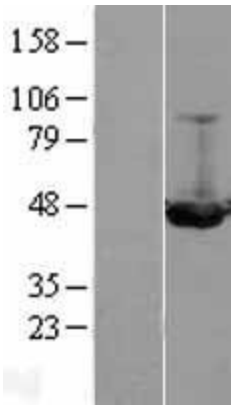
MW: 42.9 kDa

Gene Summary: The protein encoded by this gene is a protein serine/threonine phosphatase of the PP2C family. This protein can interact with integrin-linked kinase (ILK/ILK1), a regulator of integrin mediated signaling, and regulate the kinase activity of ILK. Through the interaction with ILK, this protein may selectively affect the signaling process of ILK-mediated glycogen synthase kinase 3 beta (GSK3beta), and thus participate in Wnt signaling pathway. [provided by RefSeq, Jul 2008]

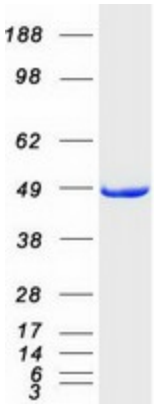
Product images:



Circular map for RC201456



Western blot validation of overexpression lysate (Cat# [LY403076]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201456 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ILKAP protein (Cat# [TP301456]). The protein was produced from HEK293T cells transfected with ILKAP cDNA clone (Cat# RC201456) using MegaTran 2.0 (Cat# [TT210002]).