

Product datasheet for MR206110

Ilkap (NM_023343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ilkap (NM_023343) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ilkap
Synonyms:	0710007A14Rik; 1600009O09Rik; PP2C-DELTA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206110 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTTTTCGGGACCTGCCGGAGCCCGAGCGCGCCGGCCATCTGCCGGAAGGAAGCACAGG
GACGACCCGTGCTCTTTGAGGACCTGCCCCGGCCAGCAGTACTGACTCAGGCTCTGGGGACCTTTACT
CTTTGATGATCTCCGCCTGCTGCCAGTGGCAATTCAGGTTCTCTTGCCACATCAGGTTCCAGGTGGT
AAGACTGAAGGAAAGGAGCAAAGAGGAAAGCCCTGAGGAGGAGAAGAATGGCGGTGAAGAGCTTGTG
AAAAGAAAGTTTGTAAAGCCTCTTCGGTGATCTTTGGTCTGAAAGGCTATGTGGCAGAGCGGAAGGTGA
GAGGGAGGAGATGCAGGATGCCATGTCATCCTGAACGATATCACTCAGGAGTGAATCCTCCATCATCT
CTCATTACTCGGGTTTCATACTTTGCTGTGTTGATGGACATGGAGGAATACGAGCCTCGAAATTTGCTG
CACAGAATTTGCACCAGAACTTAATCAGGAAATTTCTAAAGGAGATATAATCAGTGTGGAGAAGACTGT
AAAGAGGTGTCTGCTAGATACTTTAAGCACACCGATGAAGAGTTCCTGAAACAGGCTTCAAGCCAGAAG
CCTGCCTGGAAGACGGGTCCACTGCCACGTGTGCTCGGCTGTGGACAACATCCTGTATATCGCCAACC
TTGGAGATAGTCGGGCAATCCTGTGTCGATATAATGAGGAAAGTCAGAAGCACGCAGCCTTAAGCCTCAG
CAAAGAGCACAAACCACTCAGTATGAAGAGCGCATGAGGATACAGAAAGCTGGAGGGAATGTCAGAGAT
GGCGGTCTTTGGCGTCTGGAGGTATCGCGTTCATTGGAGATGGCCAGTACAAGCGCTGTGGGGTCA
CATCTGTGCCTGATATCAGACGCTGCCAGCTGACCCCAATGACAGGTTCAATTTGCTGGCTTGCGACGG
GCTTTTCAAGGTCTTTACCCAGAAAGCTGTGAACTTCATCTTGTCCCTTGAGGATGACAAGATC
CAGACCCGGGAAGGGAAGCCTGCTGTTGATGCCGCTATGAAGCTGCATGCAACAGGCTGGCCAACAAGG
CAGTGCAGCGGGCTCAGCAGACAACGTGACGGTGTGGTGGTGGATAGGACAC

ACGGTACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR206110 protein sequence
Red=Cloning site Green=Tags(s)

MDLFGDLPEPERAPRPSAGKEAQRVLFEDLPPASSTDSGSGGPLLFDDLPPAASGNSGSLATSGSQVV
 KTEGKGAKRKAPEEEKNGGEELVEKKVKASSVIFGLKGYVAERKGEREEMQDAHVILNDITQECNPPSS
 LITRVSYFAVFDGHGGIRASKFAAQNHLHQNLIKRFKPGDIIISVEKTVKRCLLDTFKHTDEEFLKQASSQK
 PAWKDGSTATCVLAVDNILYIANLGSRAILCRYNEESQKHAALSLSKEHNPTQYEERMRIQKAGGNVDR
 GRVLGVLEVSRSIGDGQYKRCGVTSVPDIRRCQLTPNDRFILLACDGLFKVFTPEEAVNFILSLEDKDI
 QTREGKPAVDARYEAACNRLANKAVQRGSADNVTVMVVRIGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_023343

ORF Size: 1179 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_023343.1](#)

RefSeq Size: 1368 bp

RefSeq ORF: 1179 bp

Locus ID: 67444

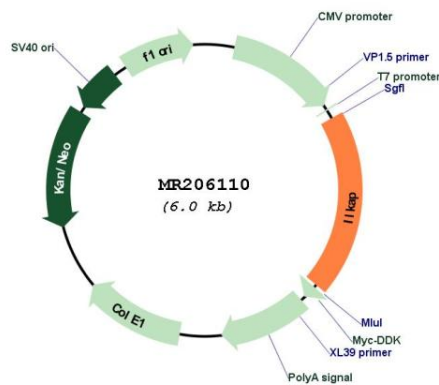
UniProt ID: [Q8R0F6](#)

Cytogenetics: 1 D

MW: 42.8 kDa

Gene Summary: Protein phosphatase that may play a role in regulation of cell cycle progression via dephosphorylation of its substrates whose appropriate phosphorylation states might be crucial for cell proliferation. Selectively associates with integrin linked kinase (ILK), to modulate cell adhesion and growth factor signaling. Inhibits the ILK-GSK3B signaling axis and may play an important role in inhibiting oncogenic transformation (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206110