

Product datasheet for **RR207710**

Ilkap (NM_022606) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ilkap (NM_022606) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ilkap
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207710 representing NM_022606 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTATTCGGGACTTGCCGGAGCCCGAGCGCCCGCGGCCGTCTGCCGGAAAGAAGCACAGG
AAGGACCCGTGCTCTTCGAGGACCTGCCCCGACCAGCAGTACTGACTCAGGATCTGGGGACCTTTACT
CTTTGATGGTCTCCACCTGCTGCGAGCGCAATTCAGTTCTCTTGCCACATCAGGCTCCAGGTGGT
AAGAACGAAGGAAAAGGAGCAAAGAGGAAAGCCCTGAGGAAGAGAAGAATGGCGGTGAAGAGCTTGTGG
AAAAGAAAGTTTGTAAAGCCTCTTCGGTGATCTTTGGTTTGAAGGCTACGTGGCAGAGCGGAAGGGTGA
GAGGGAGGAGATGCAGGACGCCCATGTCATCCTGAATGATATCACTCAGGAGTGAATCCTCCATCATCT
CTCATTACTCGGGTTTCATACTTTGCTGTTTTTGGATGGACATGGAGGAATTCGAGCCTCGAAATTTGCTG
CACAGAATTTGCACCAGAACTTAATCAGGAAATTTCTAAAGGAGATGTAATCAGTGTGGAGAAGACTGT
GAAGAGGTGCCTGCTAGATACTTTAAGCACACCGATGAAGAGTTCCTGAAACAGGCTTCAAGCCAGAAG
CCTGCCTGGAAAGACGGGTCCACTGCCACGTGTGCTGGCTGTGGACAACATCCTGTATATCGCCAACC
TTGGAGATAGTCGGCAATCCTGTGTCGATATAACGAGGAAAGTCAAAGCATGCAGCCTTAAGCCTCAG
CAAAGAGCACAATCCAACCTCAGTATGAAGAGCGCATGAGGATACAGAAGGCTGGAGGCAATGTCAGAGAT
GGCCGTGTCTTGGGTGTGCTGGAGGTATCCCGCTCCATTGGAGATGGGCAGTACAAGCGTTGCGGGGTCA
CATCCGTGCCTGATATCAGACGCTGCCAGTTGACCCCAATGACAGGTTCAATTTGCTGGCTTGTGATGG
GCTCTTCAAGGTCTTTACCCAGAAAGCTGTGAACTTCATCTTGTCTGCCTTGGAGTGAAGAAGATC
CAGACCCGAGAAGGGAAGCCTGCTGTTGATGCCCGCTATGAAGCTGCATGCAACAGGCTGGCTAACAAAG
CAGTGCAGCGGGGCTCGGCAGATAACGTGACGGTATGGTGGTGAGGATAGGACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207710 representing NM_022606
 Red=Cloning site Green=Tags(s)

MDLFGDLPEPERPPPSAGKEAQEGPVLFDLPPTSSTDGSGGGPLLFDGLPPAGSGNSGSLATSGSQVV
 KNEGKGAKRKAPEEEKNGGEELEVEKKVCKASSVIFGLKGYVAERKGEREEMQDAHVILNDITQECNPPSS
 LI TRVSYFAVFDGHGGIRASKFAAQNHLHQNLIKRFPGDVISVEKTVKRCLLDTFKHTDEEFLKQASSQK
 PAWKDGSTATCVLAVDNILYIANLGDRAILCRYNESQKHAALSLSKEHNPTQYEERMRIQKAGGNVRD
 GRVLGVLEVSRSIGDQYKRCGVTSVPDIRRCQLTPNDRFILLACDGLFKVFTPEEAVNFILSCLEDEKI
 QTREGKPAVDARYEAACNRLANKAVQRGSADNVTVMVVRIGH

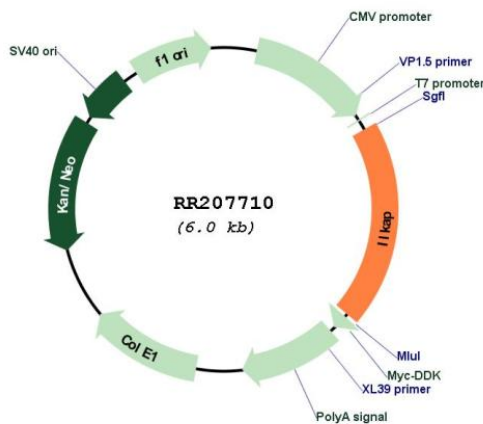
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022606

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:	<ol style="list-style-type: none">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_022606.1 , NP_072128.1
RefSeq Size:	1318 bp
RefSeq ORF:	1179 bp
Locus ID:	64538
UniProt ID:	Q9Z1Z6
Cytogenetics:	9q36
MW:	42.7 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]