

Product datasheet for **RC237923**

Integrin Linked Kinase (ILK) (NM_001278441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin Linked Kinase (ILK) (NM_001278441) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ILK
Synonyms:	HEL-S-28; ILK-1; ILK-2; P59; p59ILK
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237923 representing NM_001278441 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGACATTTTCACTCAGTGCCGGGAGGGCAACGCAGTCGCCGTTTCGCTGTGGCTGGACAACACGG
AGAACGACCTCAACCAGGGGACGATCATGGCTTCTCCCCCTGCACTGGGCTGCCGAGAGGGCCGCTC
TGCTGTGGTTGAGATGTTGATCATGCGGGGGCACGGATCAATGTAATGAACCGTGGGGATGACACCC
CTGCATCTGGCAGCCAGTCATGGACACCGTGATATTGTACAGAAGCTATTGCAGTACAAGCAGACATCA
ATGCAGTGAATGAACACGGGAATGTGCCCTGCACTATGCCTGTTTTGGGGCCAAGATCAAGTGGCAGA
GAGCGGGCAGAGAAGATGGGCCAGAATCTCAACCGTATTCCATACAAGGACACATTCTGGAAGGGGACCA
CCCGCACTCGGCCCCCTATGGAAGGGCCGCTGGCAGGGCAATGACATTGTCGTGAAGGTGCTGAAGGTT
GAGACTGGAGTACAAGGAAGAGCAGGGACTTCAATGAAGAGTGTCCCGGCTCAGGATTTCTCGCATCC
AAATGTGCTCCAGTGCTAGGTGCCTGCCAGTCTCCACCTGCTCCTCATCCTACTCTCATCACACTGG
ATGCCGTATGGATCCCTCTACAATGTACTACATGAAGGCACCAATTCGTCGTGGACCAGAGCCAGGCTG
TGAAGTTTGCTTTGGACATGGCAAGGGCATGGCCTTCTACACACTAGAGCCCTCATCCCACGCA
TGCACTCAATAGCCGTAGTGAATGATTGATGAGGACATGACTGCCGAATTAGCATGGCTGATGTAAG
TTCTTTTCCAATGTCCTGGTGCATGTATGCACCTGCCTGGGTAGCCCCGAAGCTCTGCAAGAAGAAGC
CTGAAGACACAAACAGACGCTCAGCAGACATGTGGAGTTTTCAGTGCTTCTGTGGAACTGGTGACAG
GGAGGTACCCTTTGCTGACCTCTCCAATATGGAGATTGGAATGAAGGTGGCATTGGAAGGCCCTCGGCC
ACCATCCCACCAGGTATTTCCCTCATGTGTGAAGCTCATGAAGATCTGCATGAATGAAGACCCTGCAA
AGCGACCCAAATTTGACATGATTGTGCCTATCCTTGAGAAGATGCAGGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237923 representing NM_001278441
Red=Cloning site Green=Tags(s)

MDDIFTQCREGNAVAVRLWLDNTENDLNQGDHGFSPLHWACREGRSAVVEMLIMRGARINVMNRGDDTP
 LHLAASHGHRDVIQKLLQYKADINAVNEHGNVPLHYACFWGQDQVAESGQRRWARISTVFHTRTHSGRGP
 PALGPLWKGRWQNDIVVKVLKVRDWSTRKSRDFNEECPRLRIFSHPNVLPVLGACQSPAPHPTLITHW
 MPYGSLYNVLHEGTNFVVDQSQAVKFAALDMARGMAFLHTLEPLIPRHALNSRSMVIDEDMTARISMADVK
 F5FQCPGRMYAPAWVAPEALQKKPEDTNRRSADMWSFAVLLWELVTREVPFADLSNMEIGMKVALEGLRP
 T1PPGISPHVCKLMKICMNEDPAKRPKFDMIVPILEKMQDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

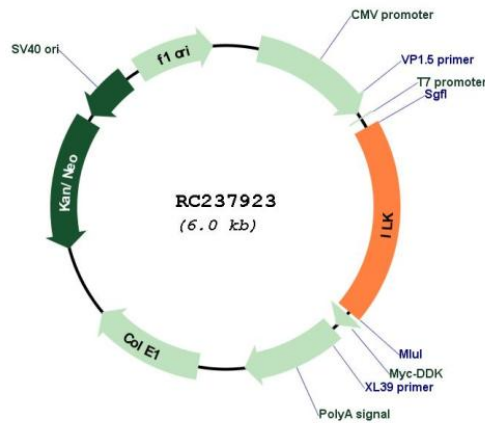
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278441

ORF Size:	1173 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_001278441.2
RefSeq Size:	1660 bp
RefSeq ORF:	1176 bp
Locus ID:	3611
UniProt ID:	Q13418
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Endometrial cancer, Focal adhesion, PPAR signaling pathway
MW:	44.8 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]