

Product datasheet for SC117313

Integrin Linked Kinase (ILK) (NM_004517) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin Linked Kinase (ILK) (NM_004517) Human Untagged Clone
Tag:	Tag Free
Symbol:	Integrin Linked Kinase
Synonyms:	HEL-S-28; ILK-1; ILK-2; P59; p59ILK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_004517 edited
 ATGGACGACATTTTCACTCAGTGCCGGGAGGGCAACGCAGTCGCCGTTTCGCTGTGGCTG
 GACAACACGGAGAACGACCTCAACCGGGGACGATCATGGCTTCTCCCCTTGCCTGG
 GCCTGCCGAGAGGGCCGCTCTGCTGTGGTTGAGATGTTGATCATGCGGGGGCACGGATC
 AATGTAATGAACCGTGGGGATGACACCCCTGCATCTGGCAGCCAGTCATGGACACCGT
 GATATTGTACAGAAGCTATTGCAGTACAAGGCAGACATCAATGCAGTGAATGAACATGGG
 AATGTGCCCTGCACTATGCCTGTTTTGGGGCCAAGTCAAGTGGCAGAGGACCTGGT
 GCAATGGGGCCCTTGTGAGCATCTGTAACAAGTATGGAGAGATGCCTGTGGACAAAGCC
 AAGGCACCCCTGAGAGAGCTTCTCCGAGAGCGGGCAGAGAAGATGGCCAGAATCTCAAC
 CGTATTCCATACAAGGACACATTCTGGAAGGGGACCACCCGCACTCGGCCCGAAATGGA
 ACCCTGAACAAACTCTGGCATTGACTTCAAACAGCTTAACTTCTGACGAAGCTCAAC
 GAGAATCACTCTGGAGAGCTATGGAAGGGCCGCTGGCAGGGCAATGACATTGTCGTGAAG
 GTGCTGAAGGTTTCGAGACTGGAGTACAAGGAAGAGCAGGGACTTCAATGAAGAGTGTCC
 CGGCTCAGGATTTTCTCGCATCCAAATGTGCTCCCAGTGCTAGGTGCCTGCCAGTCTCCA
 CCTGCTCCTCATCCTACTCTCATCACACTGGATGCCATATGGATCCCTCTACAATGTA
 CTACATGAAGGCACCAATTTTCGTCGTGGACCAGAGCCAGGCTGTGAAGTTTGGCTTTGGAC
 ATGGCAAGGGGCATGGCCTTCTACACACTAGAGCCCTCATCCCACGACATGCCTC
 AATAGCCGTAGTGAATGATTGATGAGGACATGACTGCCCGAATTAGCATGGCTGATGTC
 AAGTTCTTTTCCAATGTCCTGGTCGATGTATGCACCTGCCTGGGTAGCCCGGAAGCT
 CTGCAGAAGAAGCCTGAAGACACAACAGACGCTCAGCAGACATGTGGAGTTTTGCAAGT
 CTTCTGTGGAACTGGTACACGGGAGGTACCCTTTGCTGACCTCTCAATATGGAGATT
 GGAATGAAGGTGGCATTGGAAGGCCTTCGGCTACCATCCACCAGGTATTTCCCCTCAT
 GTGTGTAAGCTCATGAAGATCTGCATGAATGAAGACCCTGCAAAGCGACCCAAATTTGAC
 ATGATTGTGCCTATCCTTGAGAAGATGCAGGACAAGTAG



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004517 unedited GGTTCANGATTATGTAATCCGATTTCACTATAGGGCGGACGCCCAATTCGCACGAGGCTC AGGCTTTCCCATCCAGGGACTCGGGGCCCGACGCTGCTATGGACGACATTTCACTCAG TGCCGGGAGGGCAACGCAGTCGCCGTTGCGCTGTGGCTGGACAACACGGAGAACGACCTC AACCAGGGGGACGATCATGGCTTCTCCCCTTTTTTTGGGCTGCCGAGAGGGCCGCTCT GCTGTGGTTGAGATGTTGATCATGCGGGGGCACGGATCAATGTAATGAACCGTGGGGAT GACACCCCTGCATCTGGCAGCCAGTCATGGACACCGTGATATTGTACAGAAGCTATTG CAGTACAAGGCAGACATCAATGCAGTGAATGAACATGGGAATGTGCCCTGCACTATGCC TGTTTTTGGGGCCAAGATCAAGTGGCAGAGGACCTGGTGGCAAATGGGGCCCTTGTCAGC ATCTGTAACAAGTATGGAGAGATGCCTGTGGACAAAGCCAAGGCACCCCTGAGAGAGCTT CTCCGAGAGCGGGCAGAGAAGATGGGCCAGAATCTCAACCGTATTTCCATACAAGGACAC ATTCTGGAAGGGGACCACCCGCACTCGGCCCGAAATGGAACCTGAACAAACACTCTGG CATTGACTTCAAACAGCTTAACCTTCTGACGAAGCTCAACGAGAATCACTCCTGGAGAGC TATGGAAGGGCCGCTTGCCAGGTCAATGACATTGTCGCGAAAGTCTGAAGTTCCAGC ACTGGAGTACAAGGAAACACCAGGGCCTTCAATGAAAAGTGTCCCGGCTCAAGATTTT CTCGCTTCCAATGTGCTCCAGCGCTAGGTGCCTGCCAATCTCCACCTGGTTCTCATCCT ATCTCATACACTGGATGCCTAT
Restriction Sites:	NotI-NotI
ACCN:	NM_004517
Insert Size:	1800 bp
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 custsupport@origene.com 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. More info
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_004517.2 , NP_004508.1
RefSeq Size:	1817 bp

RefSeq ORF: 1359 bp

Locus ID: 3611

UniProt ID: [Q13418](#)

Cytogenetics: 11p15.4

Domains: pkinase, TyrKc, ANK, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Endometrial cancer, Focal adhesion, PPAR signaling pathway

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]

Transcript Variant: This variant (1) encodes isoform 1. Variants 1, 2, and 3 encode the same isoform (1).