

Product datasheet for **SC323933**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004517.2
 GGATCCTGCAGCCCGAGTCCCCTCCTCAGGCTTCCCAATCCAGGGGACTCGGCGCCGGG
 ACGCTGTATGGACGACATTTTCACTCAGTGCCGGGAGGGCAACGCAGTCGCCGTTTCGCC
 TGTGGCTGGACAACACGGAGAACGACCTCAACCAGGGGACGATCATGGCTTCTCCCCCT
 TGCCTGGGCTGCCGAGAGGGCCGCTCTGCTGTGTTGAGATGTTGATCATGCGGGGGG
 CACGGATCAATGTAATGAACCGTGGGGATGACACCCCCCTGCATCTGGCAGCCAGTCAAT
 GACACCGTGATATTGTACAGAAGCTATTGCAGTACAAGGCAGACATCAATGCAGTGAATG
 AACATGGGAATGTGCCCTGCACTATGCCTGTTTTTGGGGCCAAGATCAAGTGGCAGAGG
 ACCTGGTGGCAAATGGGGCCCTTGTCTCAGCATCTGTAACAAGTATGGAGAGATGCCTGTGG
 ACAAAAGCCAAGGCACCCCTGAGAGAGCTTCTCCGAGAGCGGGCAGAGAAGATGGGCCAGA
 ATCTCAACCGTATTCCATACAAGGACACATTCTGGAAGGGGACCACCCGCACTCGGCCCC
 GAAATGGAACCCCTGAACAAACACTCTGGCATTGACTTCAAACAGCTTAACTTCTGACGA
 AGCTCAACGAGAATCACTCTGGAGAGCTATGGAAGGGCCGCTGGCAGGGCAATGACATTG
 TCGTGAAGGTGCTGAAGGTTGAGACTGGAGTACAAGGAAGAGCAGGGACTTCAATGAAG
 AGTGTCCCGGCTCAGGATTTTCTCGCATCCAAATGTGCTCCAGTGCTAGGTGCCTGCC
 AGTCTCCACCTGCTCCTCATCTACTCTCATCACACACTGGATGCCATATGGATCCCTCT
 ACAATGTACTACATGAAGGCACCAATTTTCGTCTGGACCAGAGCCAGGCTGTGAAGTTTG
 CTTTGGACATGGCAAGGGGCATGGCCTTCTACACACTAGAGCCCTCATCCCACGAC
 ATGCACTCAATAGCCGTAGTGAATGATTGATGAGGACATGACTGCCCAATTAGCATGG
 CTGATGTCAAGTTCTCTTTCCAATGCTCCTGGTTCGCATGTATGCACCTGCCTGGGTAGCC
 CCGAAGCTCTGCAGAAGAAGCCTGAAGACACAAACAGACGCTCAGCAGACATGTGGAGTT
 TTGCAGTGCTTCTGTGGAACTGGTGACACGGGAGGTACCCTTTGCTGACCTCTCCAATA
 TGGAGATTGGAATGAAGGTGGCATTGGAAGGCCCTTCGGCTACCATCCCACCGATTTT
 CCCCTCATGTGTGAAGCTCATGAAGATCTGCATGAATGAAGACCCTGCAAAGCGACCCA
 AATTTGACATGATTGTGCCTATCCTTGAGAAGATGCAGGACAAGTAGGACTGGAAGGTCC
 TTGCCTGAACTCCAGAGGTGTCGGGACATGGTTGGGGAAATGCACCTCCCCAAAGCAGCA
 GGCCTCTGGTTGCCTCCCCCGCTCCAGTCATGGTACTACCCAGCCATGGGGTCCATCC
 CCTTCCCCATCCCTACCACTGTGGCCCCAAGAGGGGCGGGCTCAGAGCTTTGCTCACTTG
 CCACATGGTGTCTCCCAACATGGGAGGGATCAGCCCCGCTGTCACAATAAAGTTTATTA
 TGAA

Restriction Sites: ECoRI-NOT

ACCN: NM_004517

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](#)

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes isoform 1. Variants 1, 2, and 3 encode the same isoform (1).</p>