

Product datasheet for SC335817

Integrin Linked Kinase (ILK) (NM_001278441) Human Untagged Clone

Product data:

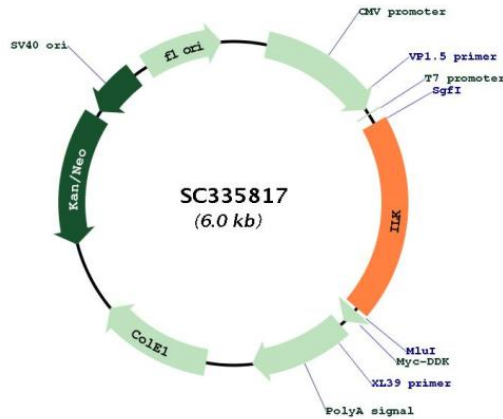
Product Type:	Expression Plasmids
Product Name:	Integrin Linked Kinase (ILK) (NM_001278441) Human Untagged Clone
Tag:	Tag Free
Symbol:	ILK
Synonyms:	HEL-S-28; ILK-1; ILK-2; P59; p59ILK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335817 representing NM_001278441. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACGACATTTTCACTCAGTCCGGGAGGGCAACGCGATCGCCGTTCCGCTGTGGCTGGACAACAGC
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TCTGCTGTGGTTGAGATGTTGATCATGCGGGGGCACGGATCAATGTAATGAACCGTGGGGATGACACC
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ATCCCACGACATGCACCTCAATAGCCGTAGTGAATGATTGATGAGGACATGACTGCCGAATTAGCATG
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TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001278441

Insert Size: 1176 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001278441.1](#)

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: 44.3 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]

Transcript Variant: This variant (4) lacks two alternate exons in the coding region, which results in a section that contains a frameshift, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.