

## Product datasheet for **SC301954**

### Integrin Linked Kinase (ILK) (NM\_001014795) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin Linked Kinase (ILK) (NM_001014795) 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:	>SC301954 representing NM_001014795. Blue=Insert sequence Red=Cloning site Green=Tag(s)

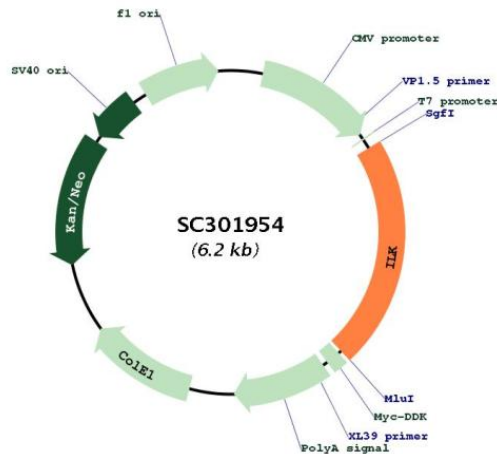
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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGACGACATTTTCACTCAGTCCGGGAGGGCAACGCAGTCGCCGTTCCGCTGTGGCTGGACAACAGC
GAGAACGACCTCAACCAGGGGACGATCATGGCTTCTCCCTTGCCTGGCCTGCCGAGAGGGCCGC
TCTGCTGTGGTTGAGATGTTGATCATGCCGGGGCACGGATCAATGTAATGAACCGTGGGGATGACACC
CCCCTGCATCTGGCAGCCAGTCA TGACACCGTGATATTGTACAGAAGCTATTGCAGTACAAGGCAGAC
ATCAATGCAGTGAATGAACACGGGAATGTGCCCTGCACTATGCCTGTTTTGGGGCCAAGATCAAGTG
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CGTAGTGAATGATTGATGAGGACATGACTGCCGGAATAGCATGGCTGATGTCAAGTTCTCTTTCCAA
TGTCCTGGTCGATGTATGCACCTGCCTGGGTAGCCCCGAAGCTCTGCAGAAGAAGCCTGAAGACACA
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AAATTTGACATGATTGTGCTATCCTTGAGAAGATGCAGGACAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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**Restriction Sites:** SgfI-MluI

**Plasmid Map:**



**ACCN:** NM\_001014795

**Insert Size:** 1359 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).

**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:**

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\\_001014795.2](#)

**RefSeq Size:** 2098 bp

**RefSeq ORF:** 1359 bp

**Locus ID:** 3611

**UniProt ID:** [Q13418](#)

<b>Cytogenetics:</b>	11p15.4
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Endometrial cancer, Focal adhesion, PPAR signaling pathway
<b>MW:</b>	51.4 kDa
<b>Gene Summary:</b>	<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 (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same isoform (1).</p>