

## Product datasheet for **RC237414**

### Integrin Linked Kinase (ILK) (NM\_001278442) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Integrin Linked Kinase (ILK) (NM\_001278442) 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:** >RC237414 representing NM\_001278442  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCCTGTGGACAAAGCCAAGGCACCCCTGAGAGACTTCTCCGAGAGCGGGCAGAGAAGATGGCCAGA  
ATCTCAACCGTATCCATAACAAGGACACATTCTGAAGGGGACCACCCGACTCGGCCCGAAATGGAAC  
CCTGAACAAACTCTGGCATTGACTTCAAACAGCTTAACTTCTGACGAAGCTCAACGAGAATCACTCT  
GGAGAGCTATGGAAGGGCCGCTGGCAGGGCAATGACATTGTCTGGAAGGTGCTGAAGTTTCGAGACTGGA  
GTACAAGGAAGAGCAGGGACTTCAATGAAGAGTGTCCCGGCTCAGGATTTTCTCGCATCCAATGTGCT  
CCCAGTGTAGGTGCCTGCCAGTCTCCACCTGCTCCTCATCCTACTCTCATCACACTGGATGCCGTAT  
GGATCCCTCTACAATGTACTACATGAAGGCACCAATTTCTGTCGTGGACCAGCCAGGCTGTGAAGTTTG  
CTTTGGACATGGCAAGGGGCATGGCCTTCTACACACTAGAGCCCTCATCCCACGACATGCACTCAA  
TAGCCGTAGTGAATGATTGATGAGGACATGACTGCCGAATTAGCATGGCTGATGTCAAGTTCTCTTTC  
CAATGTCCTGGTCGCATGTATGCACCTGCCTGGGTAGCCCCGAAGCTCTGCAGAAGAAGCCTGAAGACA  
CAAACAGACGCTCAGCAGACATGTGGATTTTGCAGTGTCTGTGGAACTGGTGACACGGGAGTACC  
CTTTGCTGACCTCTCAATATGGAGATTGGAATGAAGGTGGCATTGGAAGGCCTTCGGCCTACCATCCCA  
CCAGGTATTTCCCTCATGTGTGAAGCTCATGAAGATCTGCATGAATGAAGACCCTGCAAAGCGACCCA  
AATTTGACATGATTGTGCCTATCCTTGAGAAGATGCAGGACAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237414 representing NM\_001278442  
Red=Cloning site Green=Tags(s)

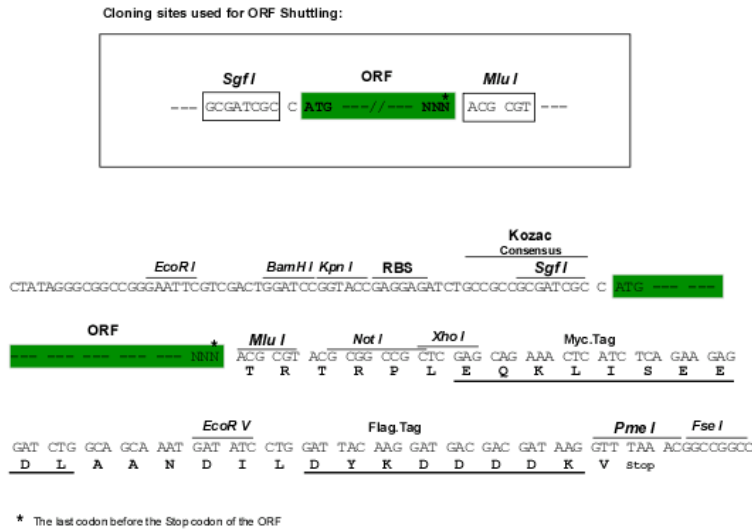
MPVDKAKAPLRELLRERAEMGQNLNRIPIYKDTFWKGTTRTRPRNGTLNKHSGIDFKQLNFLTKLNENHS  
 GELWKGWRWQNDIVVKVLKVRDWSTRKSRDFNEECPRLRIFSHPNVLPVLGACQSPAPHPPTLITHWMPY  
 GSLYNVLHEGTNFVVDQSQAVKFALDMARGMAFLHTLEPLIPRHALNSRSMIDEDMTARISMADVKFVSF  
 QCPGRMYAPAWVAPEALQKKPEDTNRSSADMWSFAVLLWELVTREVPFADLSNMEIGMKVALEGLRPTIP  
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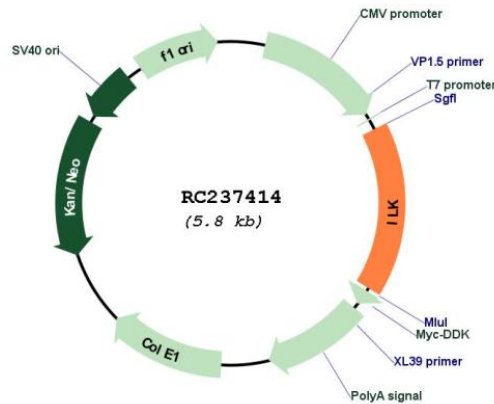
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001278442

**ORF Size:** 954 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001278442.1</a> , <a href="#">NP_001265371.1</a>
<b>RefSeq Size:</b>	1631 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	3611
<b>UniProt ID:</b>	<a href="#">Q13418</a>
<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>	36.9 kDa
<b>Gene Summary:</b>	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]