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Product datasheet for RG237923

Integrin Linked Kinase (ILK) (NM_001278441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin Linked Kinase (ILK) (NM_001278441) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ILK
Synonyms:	HEL-S-28; ILK-1; ILK-2; P59; p59ILK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG237923 representing NM_001278441.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACGACATTTTCACTCAGTGCCGGGAGGGCAACGCAGTCGCCGTTCGCCTGTGGCTGGACAACACG
GAGAACGACCTCAACCAGGGGGACGATCATGGCTTCTCCCCCTTGCACTGGGCCTGCCGAGAGGGCCGC
TCTGCTGTGGTTGAGATGTTGATCATGCGGGGGGCACGGATCAATGTAATGAACCGTGGGGATGACACC
CCCCTGCATCTGGCAGCCAGTCATGGACACCGTGATATTGTACAGAAGCTATTGCAGTACAAGGCAGAC
ATCAATGCAGTGAATGAACACGGGAATGTGCCCCTGCACTATGCCTGTTTTTGGGGCCAAGATCAAGTG
GCAGAGAGCGGGCAGAGAAGATGGGCCAGAATCTCAACCGTATTCCATACAAGGACACATTCTGGAAGG
GGACCACCCGCACTCGGCCCCCTATGGAAGGGCCGCTGGCAGGGCAATGACATTGTCGTGAAGGTGCTG
AAGGTTCGAGACTGGAGTACAAGGAAGAGCAGGGACTTCAATGAAGAGTGTCCCCGGCTCAGGATTTTC
TCGCATCCAAATGTGCTCCCAGTGCTAGGTGCCTGCCAGTCTCCACCTGCTCCTCATCCTACTCTCATC
ACACACTGGATGCCGTATGGATCCCTCTACAATGTACTACATGAAGGCACCAATTTCGTCGTGGACCAG
AGCCAGGCTGTGAAGTTTGCTTTGGACATGGCAAGGGGCATGGCCTTCCTACACACACTAGAGCCCCTC
ATCCCACGACATGCACTCAATAGCCGTAGTGTAATGATTGATGAGGACATGACTGCCCGAATTAGCATG
GCTGATGTCAAGTTCTCTTTCCAATGTCCTGGTCGCATGTATGCACCTGCCTGGGTAGCCCCCGAAGCT
CTGCAGAAGAAGCCTGAAGACACAAACAGACGCTCAGCAGACATGTGGAGTTTTGCAGTGCTTCTGTGG
GAACTGGTGACACGGGAGGTACCCTTTGCTGACCTCTCCAATATGGAGATTGGAATGAAGGTGGCATTG
GAAGGCCTTCGGCCTACCATCCCACCAGGTATTTCCCCTCATGTGTGTAAGCTCATGAAGATCTGCATG
AATGAAGACCCTGCAAAGCGACCCAAATTTGACATGATTGTGCCTATCCTTGAGAAGATGCAGGACAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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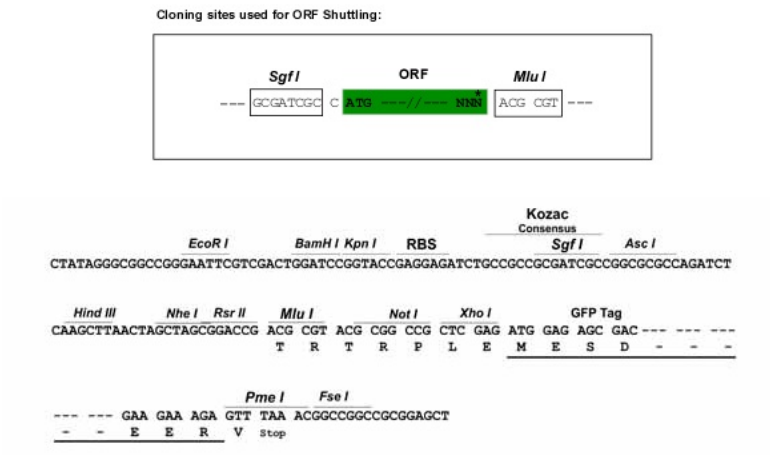
Protein Sequence:

>Peptide sequence encoded by RG237923
Blue=ORF Red=Cloning site Green=Tag(s)

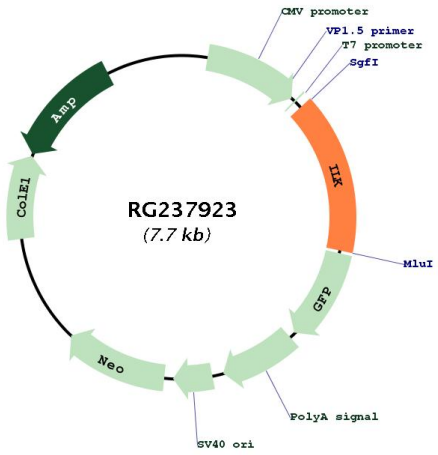
MDDIFTQCREGNAVAVRLWLDNTENDLNQGDDHGFSPLHWACREGRSAVVEMLIMRGARINVMNRGDDT
PLHLAASHGHRDIVQKLLQYKADINAVNEHGNVPLHYACFWGQDQVAESGQRRWARISTVFHTRTHSGR
GPPALGPLWKGRWQGNDIVVKVLKVRDWSTRKSRDFNEECPRLRIFSHPNVLPVLGACQSPPAPHPTLI
THWMPYGSLYNVLHEGTNFVVDQSQAVKFALDMARGMAFLHTLEPLIPRHALNSRSVMIDEDMTARISM
ADVKFSFQCPGRMYAPAWVAPEALQKKPEDTNRRSADMWSFAVLLWELVTREVPFADLSNMEIGMKVAL
EGLRPTIPPGISPHVCKLMKICMNEDPAKRPKFDMIVPILEKMQDK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001278441
ORF Size:	1173 bp
OTI Disclaimer:	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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).
RefSeq:	NM_001278441.2
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:	44.8 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]