

Product datasheet for **MR224174**

Ilk (NM_001161724) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ilk (NM_001161724) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ilk
Synonyms:	AA511515; ESTM24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224174 representing NM_001161724
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGACATTTTCACTCAGTGCCGGGAGGGCAACGCGGTGGCGGTGCGCTTGTGGCTGGACAACACAG
 AGAACGACCTCAATCAGGGGGATGATCATGGCTTCTCCCTTGCCTGGCCTGCCGAGAAGGCCGCTC
 TGCGGTGGTTGAAATGCTGATCATGCGTGGAGCACGGATTAATGTGATGAATCGTGGGGATGATACCCC
 CTGCACCTGGCAGCTAGTCATGGACACCGTGACATTGTACAGAAGCTGTTGCAATACAAGGCTGACATCA
 ATGCAGTGAATGAGCACGGCAATGTGCCACTTCACTATGCATGTTTCTGGGGCCAAGACCAGGTGGCAGA
 GGACCTGGTGGCTAACGGGGCTTGTGAGCATCTGTAACAAGTATGGAGAGATGCCTGTGGACAAAAGCC
 AAGGCACCCCTTAGAGAGCTTCCGAGAACGGGCAGAGAAAATGGCCAGAATCTCAACCGTATCCAT
 ACAAGGACACATTCTGGAAGGGGACCACTCGCACAAAGCCCGAAATGGGACCTGAACAAACACTCCGG
 TATTGACTTCAAACAGCTCAACTTCTGGCAAAGCTCAATGAGAATCATTCTGGAGAGCTTGGAAAGGC
 CGCTGGCAGGGCAATGATATTGTTGTGAAGGTGCTGAAGGTTTCGAGACTGGAGTACAAGGAAAAGCAGGG
 ACTTCAATGAGGAATGTCCCGGCTCAGGATTTCTCACACCCTAACGTGCTCCCAAGTGTAGGTGCTTG
 CCAGGCTCCCCAGCCCCACCAACCCTCATCACACTGGATGCCATATGGATCTCTCTACAATGTT
 CTACATGAAGGCACCAATTTCTGTGGACCAGAGCCAAGCTGTAAGTTTGTCTTGGACATGGCAAGAG
 GCATGGCTTTTCTCACACACTAGAGCCTCTACACCCGGCATGCATCAATAGCCGAGTGAATGAT
 CGATGAAGATATGACTGCCCGAATCAGCATGGCTGATGTTAAGTTTTCTTCCAGTGCCTGGGCGCATG
 TATGCGCTGCCTGGGTGGCCCTGAAGCCCTGCAGAAGAAGCCTGAAGACACAAACAGACGCTCAGCAG
 ACATGGAGATTCGCGGTGCTTCTGTGGAACTGGTGACACGAGAGGTGCCCTTTGCTGACCTCTCTAA
 TATGGAGATTGGGATGAAGGTGGCACTGGAAGCCCTTCGGCCTACCATCCACCAGGTATTTCCCCCAT
 GTGTGAAGCTCATGAAGATTTGCATGAATGAAGACCCTGCAAAGCGACCAAGTTTGACATGATTGTGC
 CTATCTTGAGAAGATGCAGGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224174 representing NM_001161724
 Red=Cloning site Green=Tags(s)

MDDIFTQCREGNAVAVRLWLDNTENDLNQGDHGFSPHWAACREGRSAVVEMLIMRGARINVMNRGDDTP
 LHLAASHGHRDIVQKLLQYKADINAVNEHGNVPLHYACFWGDQVAEDLVANGALVSI CNKYGEMPVDKA
 KAPLRELLRERAEMQNLRIPYKDTFWKGTTRTRPRNGTLNKHSGIDFKQLNFLAKLNENHSGELWKG
 RWQGNDIVVKVLKVRDWSTRKSRDFNEECPRLRIFSHPNVLPVLGACQAPPAPHPPTLITHWMPYGSLYNV
 LHEGTFVVDQSQAVKFDLDMARGMAFLHTLEPLIPRHALNSRSMIDEDMTARISMADVKFSFQCPGRM
 YAPAWVAPEALQKPEDTNRRSADMWSFAVLLWELVTREVPFADLSNMEIGMKVALEGLRPTIPPGISPH
 VCKLMKICMNEDPAKRPKFDMIVPILEKMQDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001161724

ORF Size: 1356 bp

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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

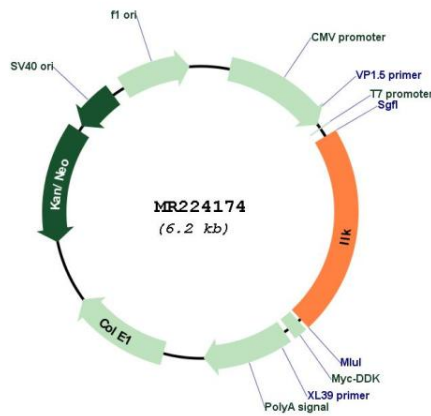
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001161724.1](#), [NP_001155196.1](#)
RefSeq Size: 1797 bp
RefSeq ORF: 1359 bp
Locus ID: 16202
UniProt ID: [O55222](#)
Cytogenetics: 7 E3
MW: 51.8 kDa

Gene Summary: Receptor-proximal protein kinase regulating integrin-mediated signal transduction. May act as a mediator of inside-out integrin signaling. Focal adhesion protein part of the complex ILK-PINCH. This complex is considered to be one of the convergence points of integrin- and growth factor-signaling pathway. Could be implicated in mediating cell architecture, adhesion to integrin substrates and anchorage-dependent growth in epithelial cells. Phosphorylates beta-1 and beta-3 integrin subunit on serine and threonine residues, but also AKT1 and GSK3B.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224174