

Product datasheet for **MR207213**

Ilk (NM_010562) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ilk (NM_010562) 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:

>MR207213 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACGACATTTTCACTCAGTGCCGGGAGGGCAACGCGGTGGCGGTGCGCTTGTGGCTGGACAACACAG
 AGAACGACCTCAATCAGGGGGATGATCATGGCTTCTCCCTTGCCTGCGGCTGCGGAGAGAGCCGCTC
 TGGCGTGGTTGAAATGCTGATCATGCGTGGAGCACGGATTAATGTGATGAATCGTGGGGATGATACCCC
 CTGCACCTGGCAGCTAGTCATGGACACCGTGACATTGTACAGAAGCTGTTGCAATACAAGGCTGACATCA
 ATGCAGTGAATGAGCACGGCAATGTGCCACTTCACTATGCATGTTTCTGGGGCCAAGACCAGGTGGCAGA
 GGACCTGGTGGCTAACGGGGCTTGTGAGCATCTGTAACAAGTATGGAGAGATGCCTGTGGACAAAAGCC
 AAGGCACCCCTTAGAGAGCTTCCGAGAACGGGCAGAGAAAATGGCCAGAATCTCAACCGTATCCAT
 ACAAGGACACATTCTGGAAGGGGACCACTCGCACAAAGCCCCGAAATGGGACCTGAACAAACACTCCGG
 TATTGACTTCAAACAGCTCAACTTCTGGCAAAGCTCAATGAGAATCATTCTGGAGAGCTTGGAAAGGC
 CGCTGGCAGGGCAATGATATTGTTGTGAAGGTGCTGAAGGTTGAGACTGGAGTACAAGGAAAAGCAGGG
 ACTTCAATGAGGAATGTCCCGGCTCAGGATTTCTCACACCCTAACGTGCTCCCAAGTGTAGGTGCTTG
 CCAGGCTCCCCAGCCCCACCAACCCTCATCACACTGGATGCCATATGGATCTCTCTACAATGTT
 CTACATGAAGGCACCAATTTCTGTGGACCAGAGCCAAGCTGTAAGTTTGTCTTGGACATGGCAAGAG
 GCATGGCTTTTCTTACACACTAGAGCCTCTCATACCCCGCATGCATCAATAGCCGAGTGAATGAT
 CGATGAAGATATGACTGCCCGAATCAGCATGGCTGATGTTAAGTTTCTTCCAGTGCCTGGGCGCATG
 TATGCCCTGCCTGGGTGGCCCTGAAGCCCTGCAGAAGAAGCCTGAAGACACAAACAGACGCTCAGCAG
 ACATGGAGATTCGCGGTGCTTCTGTGGAACTGGTGACACGAGAGGTGCCCTTGTGACTCTCTAA
 TATGGAGATTGGGATGAAGGTGGCACTGGAAGGCCCTTCGGCCTACCATCCACCAGGTATTTCCCCCAT
 GTGTGAAGCTCATGAAGATTTGCATGAATGAAGACCCTGCAAAGCGACCAAGTTTGACATGATTGTGC
 CTATCTGGAGAAGATGCAGGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207213 protein sequence
 Red=Cloning site Green=Tags(s)

MDDIFTQCREGNAVAVRLWLDNTENDLNQGDHGFSPLHWACREGRSAVVEMLIMRGARINVMNRGDDTP
 LHLAASHGHRDIVQKLLQYKADINAVNEHGNVPLHYACFWGQDQVAEDLVANGALVSI CNKYGEMPVDKA
 KAPLRELLRERAEMQNLRIPYKDTFWKGTTRTRPRNGTLNKHSGIDFKQLNFLAKLNENHSGELWKG
 RWQGNDIVVKVLKVRDWSTRKSRDFNEECPRLRIFSHPNVLPVLGACQAPPAPHPPTLITHWMPYGSLYNV
 LHEGTFVVDQSQAVKFDLDMARGMAFLHTLEPLIPRHALNSRSMIDEDMTARISMADVKFSFQCPGRM
 YAPAWVAPEALQKPEDTNRRSADMWSFAVLLWELVTREVPFADLSNMEIGMKVALEGLRPTIPPGISPH
 VCKLMKICMNEDPAKRPKFDMIVPILEKMQDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010562

ORF Size: 1359 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).

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_010562.2](#)
RefSeq Size: 1752 bp

RefSeq ORF: 1359 bp

Locus ID: 16202

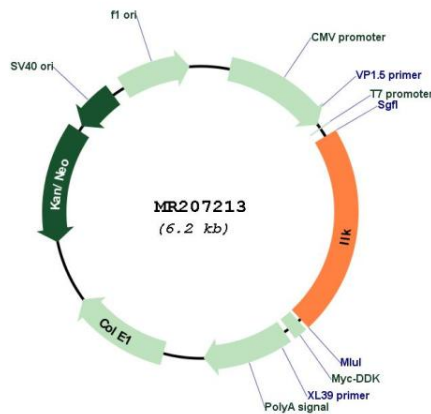
UniProt ID: [O55222](#)

Cytogenetics: 7 E3

MW: 51.4 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 MR207213