

Product datasheet for **MG207213**

Ilk (NM_010562) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ilk (NM_010562) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ilk
Synonyms:	AA511515; ESTM24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207213 representing NM_010562
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACGACATTTTCACTCAGTGCCGGGAGGGCAACGCGGTGGCGGTGCGCTTGTGGCTGGACAACACAG
 AGAACGACCTCAATCAGGGGATGATCATGGCTTCTCCCTTGCCTGGCCTGCCGAGAAGGCCGCTC
 TGCGGTGGTTGAAATGCTGATCATGCGTGGAGCACGGATTAATGTGATGAATCGTGGGATGATACCCC
 CTGCACCTGGCAGCTAGTCATGGACACCGTGACATTGTACAGAAGCTGTTGCAATACAAGGCTGACATCA
 ATGCAGTGAATGAGCACGGCAATGTGCCACTTCACTATGCATGTTTCTGGGGCCAAGACCAGGTGGCAGA
 GGACCTGGTGGCTAACGGGGCTTGTGAGCATCTGTAACAAGTATGGAGAGATGCCTGTGGACAAAGCC
 AAGGCACCCCTTAGAGAGCTTCCGAGAACGGGCAGAGAAAATGGCCAGAATCTCAACCGTATCCAT
 ACAAGGACACATTCTGGAAGGGGACCACTCGCACAAAGCCCCGAAATGGGACCTGAACAAACACTCCGG
 TATTGACTTCAAACAGCTCAACTTCTGGCAAAGCTCAATGAGAATCATTCTGGAGAGCTTGGAAAGGC
 CGCTGGCAGGGCAATGATATTGTTGTGAAGGTGCTGAAGGTTTCGAGACTGGAGTACAAGGAAAAGCAGGG
 ACTTCAATGAGGAATGTCCCGGCTCAGGATTTCTCACACCCTAACGTGCTCCCAAGTGCTAGGTGCTTG
 CCAGGCTCCCCAGCCCCACCAACCCTCATCACACTGGATGCCATATGGATCTCTCTACAATGTT
 CTACATGAAGGCACCAATTTCTGTGGACCAGAGCCAAGCTGTAAGTTTCTTTGGACATGGCAAGAG
 GCATGGCTTTTCTCACACACTAGAGCCTCTCATACCCCGCATGCACCTCAATAGCCGAGTGAATGAT
 CGATGAAGATATGACTGCCCGAATCAGCATGGCTGATGTTAAGTTTTCTTCCAGTGCCTGGGCGCATG
 TATGCGCTGCCTGGGTGGCCCTGAAGCCCTGCAGAAGAAGCCTGAAGACACAAACAGACGCTCAGCAG
 ACATGTGGAGTTTCGCGGTGCTTCTGTGGAACTGGTGACACGAGAGGTGCCCTTGTGACCTCTCTAA
 TATGGAGATTGGGATGAAGGTGGCACTGGAAGCCCTTCGGCTACCATCCACCAGGTATTTCCCCCAT
 GTGTGAAGCTCATGAAGATTTGCATGAATGAAGACCCTGCAAAGCGACCAAGTTTGACATGATTGTGC
 CTATCTTGAGAAGATGCAGGACAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207213 representing NM_010562
 Red=Cloning site Green=Tags(s)

MDDIFTQCREGNAVAVRLWLDNTENDLNQGDHGFSPHWAACREGRSAVVEMLIMRGARINVMNRGDDTP
 LHLAASHGHRDI VQKLLQYKADINAVNEHGNVPLHYACFWGDQVAEDLVANGALVSI CNKYGEMPVDKA
 KAPLRELLRERAEMQNLNRI PYKDTFWKGTTRTRPRNGTLNKHSGIDFKQLNFLAKLNENHSGELWKG
 RWQGNDIVVKVLKVRDWSTRKSRDFNEECPRLRIF SHPNVLPVLGACQAPPAPHPPTLITHWMPYGSLYNV
 LHEGTNFVVDQSQAVKFDLMARGMAFLHTLEPLIPRHALNSRSVMIDEDMTARISMADVKFSFQCPGRM
 YAPAWVAPEALQKKPEDTNRSDMWSFAVLLWELVTREVPFADLSNMEIGMKVALEGLRPTIPPGISPH
 VCKLMKICMNEDPAKRPKFDMIVPILEKMQDK

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1654_e09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_010562

ORF Size: 1356 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: 1750 bp

RefSeq ORF: 1359 bp

Locus ID: 16202

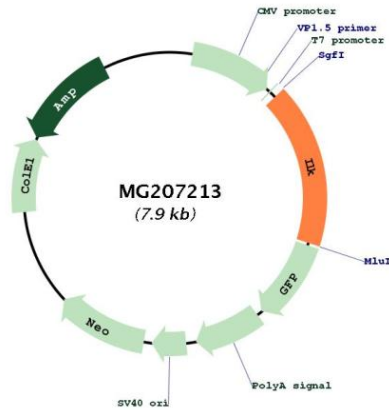
UniProt ID: [O55222](#)

Cytogenetics: 7 E3

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 MG207213