

## Product datasheet for **MG224174**

### **Ilk (NM\_001161724) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Ilk (NM_001161724) 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)                    |



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**ORF Nucleotide Sequence:**

>MG224174 representing NM\_001161724  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACGACATTTTCACTCAGTGCCGGGAGGGCAACGCGGTGGCGGTGCGCTTGTGGCTGGACAACACAG  
 AGAACGACCTCAATCAGGGGGATGATCATGGCTTCTCCCTTGCCTGGCCTGCCGAGAAGGCCGCTC  
 TGCGGTGTTGAAATGCTGATCATGCGTGGAGCACGGATTAATGTGATGAATCGTGGGGATGATACCCC  
 CTGCACCTGGCAGCTAGTCATGGACACCGTGACATTGTACAGAAGCTGTTGCAATACAAGGCTGACATCA  
 ATGCAGTGAATGAGCACGGCAATGTGCCACTTCACTATGCATGTTTCTGGGGCCAAGACCAGGTGGCAGA  
 GGACCTGGTGGCTAACGGGGCTTGTGAGCATCTGTAACAAGTATGGAGAGATGCCTGTGGACAAAGCC  
 AAGGCACCCCTTAGAGAGCTTCCGAGAACGGGCAGAGAAAATGGCCAGAATCTCAACCGTATCCAT  
 ACAAGGACACATTCTGGAAGGGGACCACTCGCACAAAGCCCCGAAATGGGACCTGAACAAACACTCCGG  
 TATTGACTTCAAACAGCTCAACTTCTGGCAAAGCTCAATGAGAATCATTCTGGAGAGCTTGGAAAGGC  
 CGCTGGCAGGGCAATGATATTGTTGTGAAGGTGCTGAAGGTTTCGAGACTGGAGTACAAGGAAAAGCAGGG  
 ACTTCAATGAGGAATGTCCCGGCTCAGGATTTCTCACACCCTAACGTGCTCCCAAGTGCTAGGTGCTTG  
 CCAGGCTCCCCAGCCCCACCAACCCTCATCACACTGGATGCCATATGGATCTCTCTACAATGTT  
 CTACATGAAGGCACCAATTTCTGTGGACCAGAGCCAAGCTGTAAGTTTGTCTTGGACATGGCAAGAG  
 GCATGGCTTTTCTTACACACTAGAGCCTCTCATACCCCGCATGCATCAATAGCCGAGTGAATGAT  
 CGATGAAGATATGACTGCCCGAATCAGCATGGCTGATGTTAAGTTTTCTTCCAGTGCCTGGGCGCATG  
 TATGCGCTGCCTGGGTGGCCCTGAAGCCCTGCAGAAGAAGCCTGAAGACACAAACAGACGCTCAGCAG  
 ACATGTGGAGTTTCGCGGTGCTTCTGTGGAACTGGTGACACGAGAGGTGCCCTTGTGACCTCTCTAA  
 TATGGAGATTGGGATGAAGGTGGCACTGGAAGGCCTTCGGCCTACCATCCACCAGGTATTTCCCCCAT  
 GTGTGAAGCTCATGAAGATTTGCATGAATGAAGACCCTGCAAAGCGACCAAGTTTGACATGATTGTGC  
 CTATCTTGGAGAAGATGCAGGACAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224174 representing NM\_001161724  
 Red=Cloning site Green=Tags(s)

MDDIFTQCREGNAVAVRLWLDNTENDLNQGDHGFSPHWAACREGRSAVVEMLIMRGARINVMNRGDDTP  
 LHLAASHGHRDIVQKLLQYKADINAVNEHGNVPLHYACFWGDQVAEDLVANGALVSI CNKYGEMPVDKA  
 KAPLRELLRERAEMQNLNRIPIKDTFWKGTTRTRPRNGTLNKHSGIDFKQLNFLAKLNENHSGELWKG  
 RWQGNDIVVKVLKVRDWSTRKSRDFNEECPRLRIFSHPNVLPVLGACQAPPAPHPPTLITHWMPYGSLYNV  
 LHEGTNFVVDQSQAVKFAALDMARGMAFLHTLEPLIPRHALNSRSMIDEDMTARISMADVKFSFQCPGRM  
 YAPAWVAPEALQKKPEDTNRNSADMWSFAVLLWELVTREVPFADLSNMEIGMKVALEGLRPTIPPGISPH  
 VCKLMKICMNEDPAKRPKFDMIVPILEKMQDK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p> |
| <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>                | <u><a href="#">NM_001161724.1</a></u> , <u><a href="#">NP_001155196.1</a></u>  |
| <b>RefSeq Size:</b>           | 1797 bp  |
| <b>RefSeq ORF:</b>            | 1359 bp  |
| <b>Locus ID:</b>              | 16202  |
| <b>UniProt ID:</b>            | <u><a href="#">O55222</a></u>  |
| <b>Cytogenetics:</b>          | 7 E3   |
| <b>Gene Summary:</b>          | <p>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]</p>   |