

## Product datasheet for **MC220257**

### Sh3kbp1 (NM\_001135727) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3kbp1 (NM_001135727) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sh3kbp1
Synonyms:	1200007H22Rik; 1700125L08Rik; 5830464D22Rik; AI447724; Cin85; IN85; Ruk; Seta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220257 representing NM\_001135727  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGGAGGCCATAGTGGAGTTTGATTACCAGGCCAGCATGATGATGAGCTGACAATCAGCGTGGGTG  
 AGGTCATACCAACATCAGGAAGGAGGATGGAGGCTGGTGGGAGGGACAGATCAACGGCAGGAGAGGTTT  
 GTTCCCTGACAACCTTTGTAAGAGAAATAAAGAAAGATATGAAGAAAGATCTTCTCTCTAACAAGCTCCA  
 GAGAAACCCATGCACGATGTATCCAGTGGAAACGCTCTGCTTTCTCTGAAACCTTTTAAAGAACCAATA  
 AACGAGGAGAACGACGGAGACGCCGATGCCAGGTGGCATTACGCTACCTGCCCCAGAATGACGATGAGCT  
 GGAGCTGAAAGTCGGGGACATCATAGAGGTTGTAGGAGAGGTAGAGGAAGGATGGTGGGAAGGTGTGCTC  
 AATGGGAAGACTGGAATGTTTCCTTCCAACCTTCATCAAGGAGCTGTCAGGGGAGTCGGATGAGCTTGGA  
 TCTCCAGGATGAGCAGCTTCCAAGTCAAGCTTAAGAGAAACCACAGGCTCCGAGAGTGTGGAGCGCA  
 CTCACGAGTACCAAGTCCGAAGGTGCCAACGGGACCATGGCACTGCAGCCATCCAGCCCAAGAAAGTT  
 AAAGGAGTGGGGTTTGGAGACATTTTCAAAGACAAGCCAATTAACCTAAGACCAAGGTGCGATTGAAGTGG  
 AAAATGACTTCCTGCCCTCGAAAAGACAATTGGGAAGAAGTTACCTCCAGCTACATCAACTCCAGACCC  
 ATCGAAGACGGAGATGGACAGCAGGACAAAAGCAAGGATTACTGCAAAGTAATATTTCCATATGAGGCA  
 CAGAATGATGATGAATTGACAATCAAGGAAGGAGATATAGTGACTCTCATCAATAAGGACTGCATCGACG  
 TAGGCTGGTGGGAAGGAGAACTCAATGGCAGACGAGGCGTGTTCCTGACAACCTTCGTGAAGTTACTTCC  
 ATCGGACTTTGACAAGGAAGGGAATAGACCCAAGAAACCGCCACCTCCATCAGCTCCTGTGCTCAAAACA  
 GGGGCAGGTACCACAGAGAGAAAAATGAAATTAATAAATACTCCTGAAAGACCAGAAACCTTCCAA  
 ACAGAACAGAAAGAGAAAGAACCCAGAGAGAGAGGCCAAAACCTGGATTTACAGAAGCCTTCAGTTCCCTGC  
 CATCCCACAAAAAGCCTCGGCCACCTAAGACCAATTCTGAAACAGACCTGGTGCATTGCCCCCAAGA  
 AGACCTGAGCGACCAGTGGGCCACTGACACACACCAGGGGTGACAGTCCAAAGATTGACTTGGCAGGCA  
 GCGCACTCTGCGATCCTGGATAAGGACCTCTCAGACCGCAGCAATGATATTGACTTAGAAGGTTTTGA  
 CTCTGTGATATCATCTACTGAGAAACTCAGCCACCCAACCACAAGCAGACCAAAAGCTACAGGAAGACGG  
 CCTCCATCCCAGTCACTCACATCTTCTCCCTTCAAGCCCCGATATCTTTGACTCCCCAAGTCCCAGG  
 AAGATAAAGAGGAACACATTTGCTTGGCAGCAGAGGAATAGACGTGTCAAAGAAGACTTCCAAGACTGT  
 TACCATATCCAAGTGTCTGATAACAAGACATCCCTGCCACCAAGCCAGGGACCATGGCAGCTGCCAGC  
 AGTGGGCCAGCTTCTCTCTTTCAGTGGCATCCTCACCCATGTATCCTCTTTGGGAACAGCTGGACAGA  
 GAGCCAGTTCTCCATCTCTGTTACGACAGAAAGGCAAGATGGAGCCAGCAGTGTGAGCAGCCAGGC  
 TGCTATCGAGGAGCTTAAGATGCAAGTCCGTGAGCTGAGGACCATCATTGAGACCATGAAGGACCAGCAG  
 AAACGTGAGATTAAGCAGTTACTGTGCAATTGGATGAAGAGAAAAAGATCCGGCTCCGGTTGCAGATGG  
 AAGTGAACGACATAAAGAAAGCTCTTCAATCAAAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001135727
- Insert Size:** 1998 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001135727.2](#), [NP\\_001129199.1](#)

**RefSeq Size:** 5168 bp

**RefSeq ORF:** 1998 bp

**Locus ID:** 58194

**UniProt ID:** [Q8R550](#)

**Cytogenetics:** X F4

**Gene Summary:** Adapter protein involved in regulating diverse signal transduction pathways. Involved in the regulation of endocytosis and lysosomal degradation of ligand-induced receptor tyrosine kinases, including EGFR and MET/hepatocyte growth factor receptor, through an association with CBL and endophilins. The association with CBL, and thus the receptor internalization, may be inhibited by an interaction with PDCD6IP and/or SPRY2. Involved in regulation of ligand-dependent endocytosis of the IgE receptor. Attenuates phosphatidylinositol 3-kinase activity by interaction with its regulatory subunit. May be involved in regulation of cell adhesion; promotes the interaction between TTK2B and PDCD6IP. May be involved in the regulation of cellular stress response via the MAPK pathways through its interaction with MAP3K4. Is involved in modulation of tumor necrosis factor mediated apoptosis. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the control of cell shape and migration (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1, also known as Ruk1) represents the longest transcript and encodes the longest isoform (1).