

Product datasheet for **MG226320**

Sh3kbp1 (NM_001135727) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3kbp1 (NM_001135727) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sh3kbp1
Synonyms:	1200007H22Rik; 1700125L08Rik; 5830464D22Rik; AI447724; Cin85; IN85; Ruk; Seta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226320 representing NM_001135727
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGAGGCCATAGTGGAGTTTGATTACCAGGCCAGCATGATGATGAGCTGACAATCAGCGTGGGTG
 AGGTCATCACCAACATCAGGAAGGAGGATGGAGGCTGGTGGGAGGGACAGATCAACGGCAGGAGAGGTTT
 GTTCCCTGACAACCTTTGTAAAGAGAAATAAAGAAAAGATATGAAGAAAGATCTTCTCTCTAACAAGCTCCA
 GAGAAACCCATGCACGATGTATCCAGTGGAAACGCTCTGCTTTCTCTGAAACCATTTTAAAGAACCAATA
 AACGAGGAGAACGACGGAGACGCCGATGCCAGGTGGCATTACGCTACCTGCCCCAGAATGACGATGAGCT
 GGAGCTGAAAGTCGGGGACATCATAGAGGTTGTAGGAGAGGTAGAGGAAGGATGGTGGGAAGGTGTGCTC
 AATGGGAAGACTGGAATGTTTCCTTCCAACCTTCATCAAGGAGCTGTCAGGGGAGTCGGATGAGCTTGGCA
 TCTCCCAGGATGAGCAGCTTCCAGTCAAGCTTAAGAGAAACCACAGGCTCCGAGAGTGTGGAGGCGA
 CTCACGAGTACCAAGTCCGAAGGTGCCAACGGGACCATGGCAACTGCAGCCATCCAGCCCAAGAAAGTT
 AAAGGAGTGGGGTTTGGAGACATTTTCAAAGACAAGCCAATTAACCTAAGACCAAGGTCGATTGAAGTGG
 AAAATGACTTCCTGCCCTCGAAAAGACAATTGGGAAGAAGTTACCTCCAGCTACATCAACTCCAGACCC
 ATCGAAGACGGAGATGGACAGCAGGACAAAAGCAAGGATTACTGCAAAGTAATATTTCCATATGAGGCA
 CAGAATGATGATGAATTGACAATCAAGGAAGGAGATATAGTGACTCTCATCAATAAGGACTGCATCGACG
 TAGGCTGGTGGGAAGGAGAACTCAATGGCAGACGAGGCGTGTTCCTGACAACTTCGTGAAGTTACTTCC
 ATCGGACTTTGACAAGGAAGGGAATAGACCCAAGAAACCGCCACCTCCATCAGCTCCTGTCGTCAAACAA
 GGGGCAGGTACCACAGAGAGAAAAACATGAAATTAATAAAAAATACCTCCTGAAAGACCAGAAACCTTCCAA
 ACAGAACAGAAGAGAAAAGAAAGACCAGAGAGAGAGCCAAAACCTGGATTTACAGAAGCCTTCAGTTCCCTGC
 CATCCCACCAAAAAAGCCTCGGCCACCTAAGACCAATTCTCTGAACAGACCTGGTGCATTGCCCCCAAGA
 AGACCTGAGCGACCAGTGGGCCACTGACACACACCAGGGGTGACAGTCCAAAGATTGACTTGGCAGGCA
 GCGCACTCTGGCATCCTGGATAAGGACCTCTCAGACCGCAGCAATGATATTGACTTAGAAGGTTTTGA
 CTCTGTGATATCATCTACTGAGAAACTCAGCCACCCAACCACAAGCAGACCAAAAGCTACAGGAAGACGG
 CCTCCATCCCAGTCACTCACATCTTCTCCCTTCAAGCCCCGATATCTTTGACTCCCCAAGTCCCGAAG
 AAGATAAAGAGGAACACATTTTCGCTTGGCAGCAGAGGAATAGACGTGTCAAAGAAGACTTCCAAGACTGT
 TACCATATCCAAGTGTCTGATAACAAGACATCCCTGCCACCAAGCCAGGGACCATGGCAGCTGCCAGC
 AGTGGGCCAGCTTCTCTCTTTCAGTGGCATCCTCACCCATGTATCCTCTTTGGGAACAGCTGGACAGA
 GAGCCAGTTCTCCATCTCTGTTACGACAGAAAGGAAAGCCAAAGATGGAGCCAGCAGTGAAGCAGCCAGGC
 TGCTATCGAGGAGCTTAAGATGCAAGTCCGTGAGCTGAGGACCATCATTGAGACCATGAAGGACCAGCAG
 AAACGTGAGATTAAGCAGTTACTGTGCAATTGGATGAAGAGAAAAAGATCCGGCTCCGGTTGCAGATGG
 AAGTGAACGACATAAAGAAAGCTTTCAATCAAAG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226320 representing NM_001135727
 Red=Cloning site Green=Tags(s)

MVEAIVEFDYQAQHDEL TISVGEVITNIRKEDGGWEGQINGRRGLFPDNFVREIKKDMKKDLLSNKAP
 EKPMHDVSSGNALLSSETILRTNKRGERRRRCQVAFSYLPQNDELLELVGDIIEVVGEVEEGWVEGL
 NGKTMFSPNFIKELSGEDELGISQDEQLSKSSLRETTGSESDGGDSSSTKSEGANGMATAAIQPKKV
 KGVGFGDIFKDKPIKLRPRSIEVENDFLPVEKTIGKKLPPATSTPDPSKTEMSRKTCTKDYCKVIFPYEA
 QNDELTIKEGDIVTLINKDCIDVGWEGELNRRGVFPDNFVKLLPSPDFDKEGNRPKPPPPSAPVVKQ
 GAGTTERKHEIKKIPPERPETLPNRTEEKERPPEPKLDLQKPSVPAIPPKPRPKTNSLNRPGALPPR
 RPERPVGPLTHTRGDSPIKIDLAGSALSGILDKDLSDRSNDIDLEGFDSVISSTEKLSHPTTSRPKATGRR
 PPSQSLTSSSLSPDIFDPSPEEDKEEHISLAHRGIDVSKKTSKTVTISQVSDNKTSLPPKPGTMAAAS
 SGPASLSSVASSPMSSSLGTAGQRASSPSLSTEGKPKMEPAVSSQAAIEELKMQVRELRTIIETMKDQQ
 KREIKQLLSELDEEKKIRLRLQMEVNDIKKALQSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135727

ORF Size: 1995 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_001135727.2](#), [NP_001129199.1](#)

RefSeq Size: 5029 bp

RefSeq ORF: 1998 bp

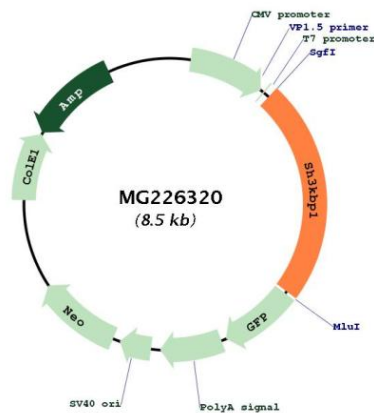
Locus ID: 58194

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]

Product images:



Circular map for MG226320