

Product datasheet for **MG226321**

Sh3kbp1 (NM_001135728) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3kbp1 (NM_001135728) 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)
ORF Nucleotide Sequence:	>MG226321 representing NM_001135728 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGAAGAGACAATTGGGAAGAAGTTACCTCCAGCTACATCAACTCCAGACCCATCGAAGACGGAGA
TGGACAGCAGGACAAAGACCAAGGATTACTGCAAAGTAATATTTCCATATGAGGCACAGAATGATGATGA
ATTGACAATCAAGGAAGGAGATATAGTGACTCTCATCAATAAGGACTGCATCGACGTAGGCTGGTGGGAA
GGAGAACTCAATGGCAGACGAGGCGTGTTCCTGACAACCTTCGTGAAGTTACTTCCATCGGACTTTGACA
AGGAAGGGAATAGACCCAAGAAACCGCCACCTCCATCAGCTCCTGTCGTCAAACAAGGGCAGGTACCAC
AGAGAGAAAACATGAAATTAATAAATACCTCCTGAAAGACCAGAAACCTTCCAAACAGAACAGAAAGAG
AAAGAAAGACCAGAGAGAGAGCCAAAATGGATTTACAGAAGCCTTCAGTTCTCGCCATCCCACCAAAAA
AGCCTCGGCCACCTAAGACCAATTCTCTGAACAGACCTGGTGCATTGCCCCCAAGAAGACCTGAGCGACC
AGTGGGCCCACTGACACACACCAGGGGTGACAGTCCAAAGATTGACTTGGCAGGCAGCGCACTCTCTGGC
ATCCTGGATAAAGACCTCTCAGACCGCAGCAATGATATTGACTTAGAAGGTTTGGACTCTGTGATATCAT
CTACTGAGAACTCAGCCACCCAACCACAAGCAGACCAAAAGCTACAGGAAGACGGCCTCCATCCCAGTC
ACTCACATCTTCTCCCTTTCAAGCCCCGATATCTTTGACTCCCCAAGTCCCGAAGAAGATAAAGAGGAA
CACATTTGCTTGGCCACAGAGGAATAGACGTGTCAAAGAAGACTTCCAAGACTGTTACCATATCCCAAG
TGCTGATAACAAGACATCCCTGCCACCCAAGCCAGGGACCATGGCAGCTGCCAGCAGTGGGCCAGCTTC
TCTCTTTCAGTGGCATCCTCACCCATGTCATCCTCTTTGGGAACAGCTGGACAGAGAGCCAGTTCTCCA
TCTCTGTTCAGCACAGAAGGAAAGCCAAAGATGGAGCCAGCAGTGGCAGCCAGGCTGCTATCGAGGAGC
TTAAGATGCAAGTCCGTGAGCTGAGGACCATCATTGAGACCATGAAGGACCAGCAGAAACGTGAGATTAA
GCAGTTACTGTCAGAATTGGATGAAGAGAAAAAGATCCGGCTCCGGTTCAGATGGAAGTGAACGACATA
AAGAAAGCTCTTCAATCAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226321 representing NM_001135728
 Red=Cloning site Green=Tags(s)

```
MGEETIGKKLPPATSTPDPSKTEMSRRTKTDYCKVIFPYEAQNDELTIKEGDIVTLINKDCIDVGWWE
GELNRRGVFPDNFVKLLPSDFDKEGNRPKPPPPSAPVVKQGAGTTERKHEIKKIPPERPETLPNRTEE
KERPEREPKLDLQKPSVPAIPPKPRPKTNSLNRPGALPPRRPERPVGPLTHTRGDSPKIDLGSALSG
ILDKDLSDRSNDIDLEGFDSVISSTEKLSHPTTSRPKATGRRPPSQSLTSSLSPPDIFDSPSPEEDKEE
HISLAHRGIDVSKKTSKTVTISQVSDNKTSPPKPGTMAAASSGPASLSSVASSPMSSSLGTAGQRASSP
SLFSTEGPKMEPAVSSQAAIEELKMVRELRTIETMKDQKREIKQLLSELDEEKKIRLRLQMEVNDI
KKALQSK
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135728

ORF Size: 1281 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_001135728.2](#), [NP_001129200.1](#)

RefSeq Size: 4167 bp

RefSeq ORF: 1284 bp

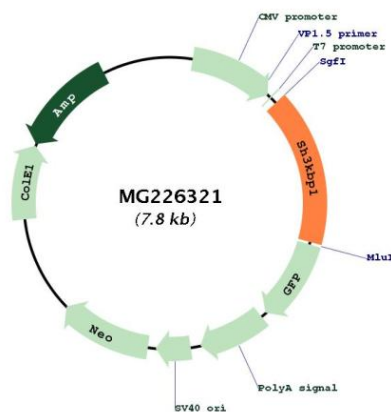
Locus ID: 58194

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 MG226321