

Product datasheet for **MG226324**

Sh3kbp1 (NM_021389) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3kbp1 (NM_021389) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MG226324 representing NM_021389
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCTTTCTGCAGCCAAAGCCCAAGCCCCACAGACTTGCCTGAGAGTGAAATAAAGAAAGATATGA
 AGAAAGATCTTCTCTAACAAAGCTCCAGAGAAACCCATGCACGATGTATCCAGTGAAACGCTCTGCT
 TTCTTCTGAAACCATTTTAAAGACCAATAAACGAGGAGAACGACGGAGACGCCGATGCCAGTGGCATT
 AGCTACCTGCCCCAGAATGACGATGAGCTGGAGCTGAAAGTCGGGGACATCATAGAGTTGTAGGAGAGG
 TAGAGGAAGGATGGTGGGAAGGTGTGCTCAATGGGAAGACTGGAATGTTTCCTTCCAACCTCATCAAGGA
 GCTGTGAGGGGAGTCGGATGAGCTTGGCATCTCCAGGATGAGCAGCTTTCGAAGTCAAGCTTAAGAGAA
 ACCACAGGCTCCGAGAGTGATGGAGGCGACTCCAGCAGTACCAAGTCCGAAGGTGCCAACGGGACCATGG
 CAACTGCAGCCATCCAGCCCAAGAAAGTAAAGGAGTGGGGTTTGGAGACATTTTCAAAGACAAGCCAA
 TAAACTAAGACCAAGGTGATTGAAGTGGAAAATGACTTCTGCCCGTCGAAAAGACAATGGGAAGAAG
 TTACCTCCAGCTACATCAACTCCAGACCCATCGAAGACGGAGATGGACAGCAGGACAAAGACCAAGGATT
 ACTGCAAAGTAATATTTCCATATGAGGCACAGAATGATGATGAATTGACAATCAAGGAAGGAGATATAGT
 GACTCTCATCAATAAGGACTGCATCGACGTAGGCTGGTGGGAAGGAGAATCAATGGCAGACGAGGCGTG
 TTTCTGACAACCTTCGTGAAGTACTTCCATCGGACTTTGACAAGGAAGGGAATAGACCCAAGAAACCGC
 CACCTCCATCAGTCTCTGCTCAAACAAGGGGACGTTACCACAGAGAGAAAAACATGAAATTAATAAAAT
 ACCTCTGAAAGACCAGAAACCTTCCAAACAGAACAGAGAGAAAGAAAGACCAGAGAGAGAGCCAAAA
 CTGGATTACAGAAGCCTTCAGTCTGTCATCCACCAAAAAAGCCTCGGCCACCTAAGACCAATTCTC
 TGAACAGACTGGTGCATTGCCCAAGAAGACTGAGCGACAGTGGGCCACTGACACACACACAGGGGG
 TGACAGTCCAAAGATTGACTTGGCAGGCAGCGCACTCTCTGGCATCCTGGATAAAGGACCTCTCAGACCGC
 AGCAATGATATTGACTTAGAAGTTTTGACTCTGTGATATCATCTACTGAGAACTCAGCCACCCAAACCA
 CAAGCAGACCAAAAGCTACAGGAAGACGGCCTCCATCCAGTCACTCACATCTTCTTCCCTTTAAGCCC
 CGATATCTTTGACTCCCCAAGTCCCGAAGAAGATAAAGAGGAACACATTTGCTTGCACAGAGGAATA
 GACGTGTCAAAGAAGACTTCCAAGACTGTTACCATATCCCAAGTGTGATAACAAGACATCCCTGCCAC
 CCAAGCCAGGGACCATGGCAGCTGCCAGCAGTGGGCCAGCTTCTCTCTTTCAGTGGCATCTCACCCAT
 GTCATCTCTTTGGAACAGCTGGACAGAGAGCCAGTTCTCCATCTGTTCAGCACAGAAGGAAAGCCA
 AAGATGGAGCCAGCAGTGAAGCAGCCAGGCTGCTATCGAGGAGCTTAAGATGCAAGTCCGTGAGCTGAGGA
 CCATCATTGAGACCATGAAGACCAGCAGAAACGTGAGATTAAGCAGTACTGTGACAATTGGATGAAGA
 GAAAAAGATCCGGCTCCGGTTGCAGATGGAAGTGAACGACATAAAGAAAGCTCTTCAATCAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226324 representing NM_021389
 Red=Cloning site Green=Tags(s)

MELSAKAPSPTDLPESEIKKDMKKDLLSNKAPEKPMHDVSSGNALLSSETILRTNKRGERRRRRRCQVAF
 SYLPQNDDLELKVGDIEVVGVEVEEGWVEGLNGKTGMFSPNF IKELSGESDELGISQDEQLSKSSLRE
 TTGSESDGGSSSTKSEGANMTATAAIQPKVKVGVFGDIFKDKPIKLRPRSIEVENDFLPVEKTIGKK
 LPPATSTPDPKTEMDSRTKTKDYCKVIFPYEAQNDELTIKEGDIVTLINKDCIDVWGWEGELNGRRGV
 FPDNFVKLLPSDFDKEGNRPKPPPPSAPVVKQGAGTTERKHEIKKIPPERPETLPNRTEEKERPEREPK
 LDLQKPSVPAIPPKPRPKTNSLNRPGALPPRRPERPVGPLTHTRGDSPKIDLAGSALSGILDKDLSDR
 SNDIDLEGFDSVISSTEKLSHPTTSRPKATGRRPPSQSLTSSSLSPDIFDPSPEEDKEEHI SLAHRGI
 DVSKKTSKTVTISQVSDNKTSLPPKPGTMAAASSGPASLSSVASSPMSSSLGTAGQRASSPSLFSTEGPK
 KMPEAVSSQAIEELKMQVRELRTIETMKDQKREIKQLLSELDEEKKIRLRLQMEVNDIKKALQSK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_021389

ORF Size: 1884 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_021389.6](#), [NP_067364.2](#)

RefSeq Size: 4730 bp

RefSeq ORF: 1887 bp

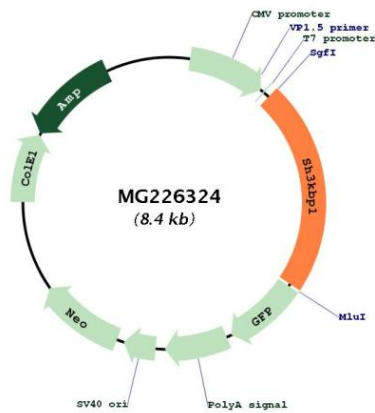
Locus ID: 58194

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 MG226324