

## Product datasheet for **RR217125**

### **Shkbp1 (NM\_001271080) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Shkbp1 (NM_001271080) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Shkbp1
Synonyms:	RGD1309281; Sb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR217125 representing NM\_001271080  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGTCCCGACGACTGCAGTGGAGGGGTCCGGAGTCGGGGAGCGCCCGGGGAAGTGATTTCATCTGA  
 ACGTAGGGGGCAAGCGGTTCAAGCACTCTCGCCAGACGCTAACCTGGATCCCAGACTCCTTCTTTCCAG  
 TCTTTTGAAGCGGACGTATCTCAACCCTGAAAGATGAGACCGGAGCCATCTTCATCGACCGGGACCCCACT  
 GTCTTTGCCCCATCCTCAATTTCTGAGGACCAAGAGTTAGACCCAGGGGTGTCCATGGTTCCAGCC  
 TCCTCCATGAAGCCCAATTCTATGGGCTCACTCCACTGGTTTCGTCGCTGCAGGTAAGGGAAGAGTTGGA  
 TCGATCTTCTGCGGAAATGTCTCTTCAATGTTATCTACCTCCTCCAGTGTCCAGTGAAGCGGAGA  
 AACCGGCACAGCCTGGTGGGGCCCCAGCAATAGGGGGACGCCAGCCCTGTTTCGACGGAGCAACACGA  
 TGCCCCCAACTTGGGTAATGCAGGGCTGCTAGGCCGAATGCTGGATGATAGAGCACCTCCATCCCCATC  
 AGGCCAACAGAGGAACAGGGATGGTGGCGCTGGTGTGGTACCACAACCTGGATTGCTGTGGCGTAT  
 ACCCACTTCTCGTCTGTTATAGACTGAAGGAAGCCTCCGGTTGGCAGCTTGCACTTCTCCAGTCTCGCC  
 TAGACTGGCCATTGAGCGCCTGGCTCTCACAGCTCGGGTGTCTGGTGGTGTCCAGGCGAGCATGACAA  
 GATGGTGGCTGCAGCCACAGGCAGCGAGATCCTTCTGTGGGCGCTACAGGCACAAGGTGGTGGCTGTGAG  
 ATAGGTGTCTTCCACTGGGTGTGCCTGTGGAAGCCTTGTCTTTGTTGGGAACAGCTCATTGCCACAA  
 GCCACACAGGGCGCATCGGTGTCTGGAACGCCGTGACCAAGCACTGGCAGGTCCAGGAGTCCAGCCTAT  
 CACGAGTTATGATGCAGCCGGCTCCTTCTCCTCCTGGGCTGCAGCAATGGCTCCATCTATTATGTAGAT  
 AAGATGGGGTACCGCCCTCAGCGTCTACCTCACCCCAAGACCAGTGACAGTGGGAACCTGGATTGACAG  
 TGCCATGGCACCAAGCTCCGGAGTGGTGGGGTCAATTGTCCAGCACCCGAGACAGTGGGCTCGGGACCC  
 CAGCTCTTCCAGACCTTCAAGTGTACACCGCAGCCCTGTACCAAGATCATGCTGTGAGAGAAGCACCTCA  
 TCTCTGTGTGCGGACAACAACCATGTTCCGGACGTGGTCTGTGACCCGCTTTCGAGGCATGATCTCCAC  
 CCAGCCTGGTTCCACTCCACTGGCATCCTCAAGATCCTGGCACTTGAATCAGCCGATGGGCTCGGTGGC  
 TGCAGTGTGGCAATGACATTGGTCCCTATGGTGGAGCGGGATGACCAGCAGGTGTTTCATCCAGAAGGTGG  
 TACCAATGCCAGCCAGCTGTTTGTGCGTCTCCTCCTCCACTGGGAGCGGGTGTGTTCTGTACGCTCAGT  
 GGATGGCTCCGCTACGACTGCCTTACAGTGTGGAGTGTGAGGGCTCCAGGCGGTTGGGCTCCAGACCC  
 CGACGCTACCTGCTCACCAGCCAAAGCAATGGCAGCCTGGCCATGTGGGACCTGACCACTGCCATGGACG  
 GCCTGGGCCAAACCCCTGCAGGGCGCCTGACCGAAGAAGAGCTGATGGACCAACTGGAGCAGTGTGAACT  
 GAGCCATTGACTTCTTCTCGGGCCTTTTTCCAGCCCTCACCCAGAACCTCTTTACCAGTCTACAC  
 TCAGCCTCCAGCAACACCTCGTGTGTGGCCACAGAGGGAGCCCCAGCCACCGCAGGCAGGGGCCCGGA  
 GCCGCGGGCAGGAAGCTTCGTGGATCGGTTTAAAGAAGTGGCAAGGGGTGCACCGGAGCTCCGAGGGCC  
 ACCAACACCAGCCCTCGACCCTCCACCAGTCTTGGGAATCCCCTGATACTTCCAAAAACACACTTAAC  
 GAAACTTCCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217125 representing NM\_001271080  
Red=Cloning site Green=Tags(s)

```
MAVPTTAVEGVRSRGAPGEVIHLNVGGKRFSTSRQTLTWIPDSFFSLLSGRISTLKDETGAIFIDRDPT
VFAPILNFLRTKELDPRGVHGSSLLHEAQFYGLTPLVRRQLQVREELDRSSCGNVLFNGYLPPPVPVKRR
NRHSLVGPOQIGGRPAPVRRSNTMPPNLGNAGLLGRMLDDRAPPSPSGQPEEPMVRLVCGHHNWIAYAY
THFLVCYRLKEASGWQLAFSSPRLDWPIERLAL TARVLGGAPGEHDKMVAATGSEILLWALQAQGGGSE
IGVFHLGVPVEALFFVGNQLIATSHTGRIGVWNAVTKHWQVQEVQPIITSYDAAGSFLLGCSNGSIYYVD
VQKFPLRMKDNDLLVSELYRDP AEDGVTALSVYLTPKTSDSGNWIEIAYGTSSGVVRVIVQHPETVGS GP
QLFQTFVSVHRSPVTKIMLSEKHLISVCADNNHVRTWSVTRFRGMISTQPGSTPLASFKILALESADGLGG
CSAGNDIGPYGERDDQQVF IQKVVPNASQLFVRLSSTGQRVCSVRSVDGSATTAF TVLECEGSRRLGSRP
RRYLLTGQANGSLAMWDLTTAMDGLGQTPAGGL TEEELMDQLEQCEL SPLTSSRASFPSPSPRTSLTSLH
SASSNTSLCGHRGSPSPQAGARSRGAGSFVDRFKELARGAPELRGPPTPAPRPSTSLGNPLILPKNTLN
ETSF
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001271080

**ORF Size:** 2112 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\\_001271080.1](#), [NP\\_001258009.1](#)

**RefSeq Size:** 2300 bp

**RefSeq ORF:** 2115 bp

**Locus ID:** 292735

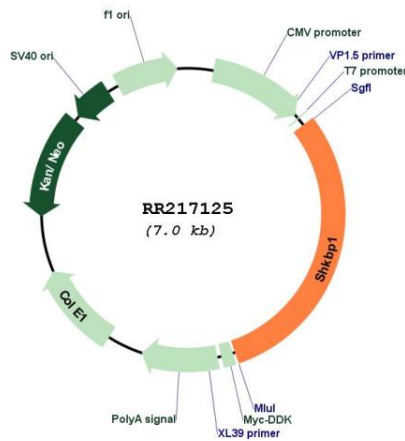
**UniProt ID:** [P0C5J9](#)

**Cytogenetics:** 1q21

**MW:** 76 kDa

**Gene Summary:** Inhibits CBL-SH3KBP1 complex mediated down-regulation of EGFR signaling by sequestration of SH3KBP1. Binds to SH3KBP1 and prevents its interaction with CBL and inhibits translocation of SH3KBP1 to EGFR containing vesicles upon EGF stimulation. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RR217125