

Product datasheet for **RR205645**

Tbkbp1 (NM_172021) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbkbp1 (NM_172021) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbkbp1
Synonyms:	Prosapip2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205645 representing NM_172021
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGAGTCCATGTTTGAAGATGACATCAGCATCCTGACCAAGAGGCCTTGGGGCCAGTGAGGTGTGGC
 TGGATGGTCTGGAGACCGTCACTGGGAGGGGACATGTGCTCTGCCTCCCATTTTGTCTCATCACAGC
 CTATGGAGATATCAAAGAGCGGCTAGGAGGCCTGGAGAGAGAGAATGCCACCCTCCGCCGTCGCCTCAAA
 GTCTATGAGATTAAGTATCCGCTGATCACCATTGTTGAGAAGAGCATGGCTTCCCTCTGTATGAAATCA
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 GCAGAAGAATAAGGAGCAGGAAGAACAGCTCGGGGAGATGATCCAGGCTTACGAGAACTGTGTGTGGAG
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 GTTTGGAGAAACAGCTGCAGCAACAGCAAGGCCTCCGGGATGCAGCTTTCTCCAGCCTGAGCCCCCAGC
 GGTCCCTGCCACAGCCTGTCTGACCTGGACCTGCACTATCTGGCTCTGAGAGGGGGACCTGCCTTGGGT
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 GGCATGGCTTGGGTAAAGAGAGTTGGGGACGATCAGGTGAACCTGGCACTGGCTATACAGAACTGACCG
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 CATCCGCTGCGCCTATTCTGTGCGGGTTCCTCATCCAGAGTCACTGCGGCCACCGCTATGCCAC
 GCTGAGCACGACAGTCTGGCCATCCATCAATCTACTGATGGAGACGGTGGGCTCCGACATCCGAAGTT
 GCCCCCTCTGCCAGTTGGGTTTCCCTGTGGGTACCCAGATGATGCCCTCATCAACACATTGACTCCCA
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

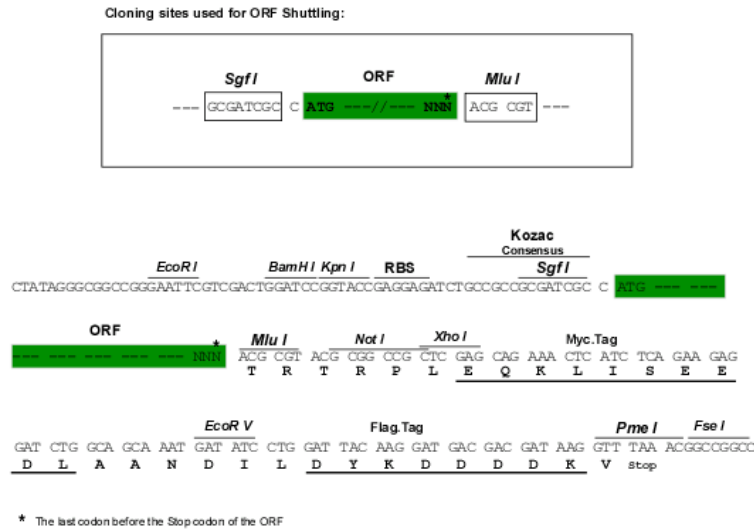
>RR205645 representing NM_172021
 Red=Cloning site Green=Tags(s)

MESMFEDDISILTQEALGPSEVWLDGPGDPSLGGDMCSASHFALITAYGDIKERLGGLERENATLRRRLK
 VYEIKYPLITDFGEEHGFPLYEIKDGSLLVEKVSLQQLNQFQHELQKNKEQEEQLGEMIQAYEKLVE
 KSDLETELGEMRALVETHLRQICGLEKQLQQQGLRDAAFSSLSPPAVPATACPDLDLHYLALRGGPALG
 HAGWPPTSVSSELERRRLEEALEAAQGEARGAQLREEQLQAEERLQELKQLQETRAQDLASNQSEC
 GMAVVKRVGDDQVNLALAYTELTEELGRLRELSSLQGRILRTLLQEARNAGQRHSPLSQRHSPAPACPS
 PSPPARPPPCAPCQSPAAQRRSPVPPCPSPQRRSPASPCSPVPQRRSPVPPSCQSPSPQRRSPVPPS
 CPAPQPRPPPPGERTLAERAYAKPPSHHAKAGFQRRSYSELAEGAAYAAASPAWLQAEATLPKPRAY
 GGELYGPRPLSPRAFEIGIRLRFKQPSSEEEWAMPASPPSPEASTIRCASFAGFPIESPATAYAH
 AEHAQSWPSINLLMETVGSDIRSCLCQLGFVPVGPDDALIKHIDSHLENSKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172021

ORF Size: 1839 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_172021.2](#), [NP_742018.2](#)

RefSeq Size: 3340 bp

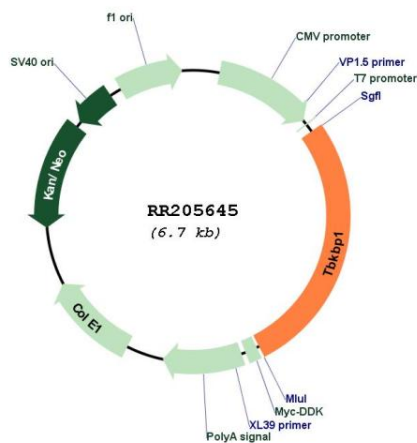
RefSeq ORF: 1842 bp

Locus ID: 266764

UniProt ID: [Q6DG50](#)

Cytogenetics:	10q31
MW:	67.2 kDa
Gene Summary:	Adapter protein which constitutively binds TBK1 and IKKBE playing a role in antiviral innate immunity. Essential for the efficient induction of IRF-dependent transcription following infection with Sendai virus (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR205645