

Product datasheet for **MR209682**

Ttll12 (NM_183017) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttll12 (NM_183017) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ttll12
Synonyms:	BC055368; D430005B17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR209682 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATCCAGTCCGGGCCGAGCCTGGCAGTCCCGGCCGCGCCGAGAGGCTGAACGCGCGGCTGCTGG
 ACGAGTTCGTGTCGCTGCACGGCCCTACGCTGCGCGCCTCGGGAGTCCCAGAGCGACTATGGGGCCGCT
 TCTGCACAAGCTGGAGCACGAGGTTTTTCGATGCCGGGGAGATGTTTGGGATAAAGCAGGTGGAGGAGGTG
 GAGGAGGCTGAGGACGAGGCCGCCAGGGAGGCTCAGAGGAAGCAGCCAAACCCTGGGGCGAGCTGTGCT
 ACAAGGTCATTGTGACCAGTGAGAGCGGCTCCGGGCTGACGACCCCAACAGCATCTTCTCATCGACCA
 TGCCTGGACGTGCCGTGTGGAGCATGCACGAAACAGCTGCAGCAGGTACCTGGACTCCTGCACCGGATG
 GCCAACCTCATGGGCATCGAGTTCATGGGAAGTGCCAGCCCAGAGGTTGTGGCCCTAGTGTGGAGG
 AGATGTGGAAATCAACCAGACCTATCAGCTGGCCATGGGACAGCCGAAGAGAAGGTGCCAGTGTGGTA
 CATCATGGACGAGTTTGGCTCGAGGATCCAGCACTCAGACATGCCAGCTTCGCCACTGCTCCCTTCTTC
 TACATGCCCCAGCAGGTGGCATACACGCTGCTGTGGCCCTAAGGGACCTAGACACAGGCGAGGAGGTGA
 CCCGGGACTTTGCCTACGGAGAGGCAGACCCTCTGATCCGGAAATGCATGCTGCTGCCCTGGGCCCCCGC
 CGCATGCTGGACCTCAGCTTCTCTACGCTGAGCCTCCTGCCAAGTACTACCAGGCCATTTTGGAGGAG
 AACAAGGAGAAATGCCGCTCGCCATTAGCCCAGTGGCACGTCCCAGGGCCACGCTTTCAGAGTCCACT
 GCGACGTGCAGCAGGTGCTCGGCCACCTTACCCACCTCGCTTACCTTCACTGATAGCGAGGCTGATGC
 CGACATCTTCTTCACTTCTCACACTTCAAGGACTACATGAAACTCAGCCAAGAGAGCCACAGGTGCTA
 CTCAACCAAGTCCCCTGTGAGAATCTGCTGACTGTTAAGGACTGTCTGGCCTCCATCGCTCGCCGGGCTG
 GGGTCCCTGAGGGTCCCCCTGGCTACCCGAACTTCAACCTGCGCACTGAGCTGCCCCAGTTTGTGTCAG
 CTATTTCCAGCACCGGGAGAGGGGGTGAAGACAACCACTGGATCTGCAAGCCCTGGAACCTGGCCCGC
 AGCCTGGACACTCACGTACCAACAACCTCCACAGTATCATTCCGACCCGAGAGACACCCCAAGGTTG
 TGTCCAAGTACATCGAAAGTCCCGTCTTGTTCCTCCGAGAAGATGTGGGAAACGTCAAGTTTGACATCCG
 CTACATTGTGCTGCTGCGCTCAGTGAGGCCGCTGAGGTTGTTTGTACGATGTGTTTTGGCTACGCTTC
 TCCAATCGGCCCTTCGCCCTCGATGACCTAGACGACTATGAGAAGCATTTACCGTCATGAACTATGACC
 CGGATGTGGTGTGAAGCAGGTGCACTATAATGAGTTCATCCCTCAGTTTGAAGCAGTACCCAGAGTT
 TCCCTGGAGTGATGTTTCAAGGCTTCAAGGCTTACGGAGCTGTTCCAAGTGGCATGTGCCAAG
 CCACCGCCATGGCCTCTGTGACTACCCCTCATCCCGGCCATGTATGCCATTGATCTCATGCTCAACT
 GGGACAACCACCCAGATGGAAAGCGGGTATGCAGCCCAAAATCCTGGAGGTGAACCTCAACCCGACTG
 CGAGCGAGCCTGCAGATACCACCCTCATTCTTCAATGATGTCTTCAAGCACTTTGTTTCTGGACGAGACT
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 ACAAGGATGACGACGATAAGGTTTAA

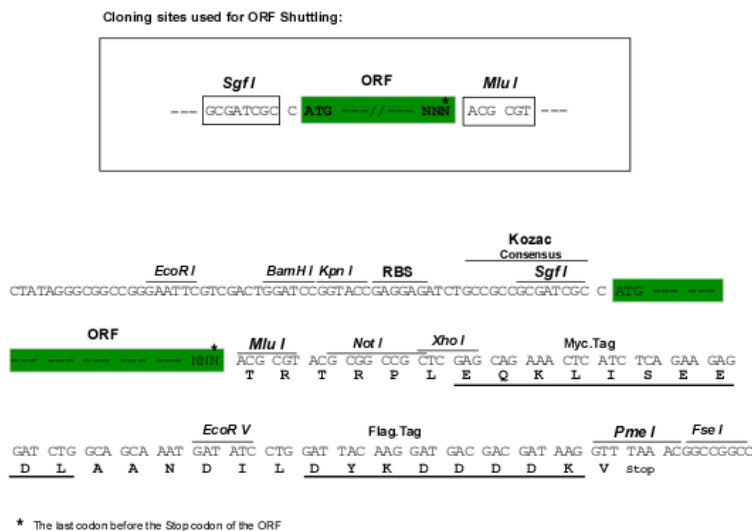
Protein Sequence: >MR209682 protein sequence
Red=Cloning site Green=Tags(s)

MEIQSGPQPGSPGRAERLNARLLDEFVSLHGPTLRASGVPERLWGRL LHKLEHEVFDAGEMFGIKQVEEV
 EEAEDAAREAQRKQPNPGGELCYKVIIVTSESGVRADDPNSIFLIDHAWTCRVEHARKQLQQVPGLLHRM
 ANLMGIEFHGEVPSPEVVALVLEEMWKFNQTYQLAHGTAEEKVPVWYIMDEFGSRIQHSMDMPSFATAPFF
 YMPQQVAYTLLWPLRDLDTGEEVTRDFAYGEADPLIRKCM LLPWAPADMLDL SFSTPEPPAKYYQAI LEE
 NKEKLPLAISPVARPQGHVFRVHCDVQVVLGHLTHPRFTFDSEADADIFFHSHFKDYMKLSQESPQVL
 LNQFPCENLLTVKDCLASIARRAGGPEGPPWLPRTFNLRTELPQFVSFYQHRERRGEDNHWICKPWNLAR
 SLDTHVTNNLHSIIRHRESTPKVSKYIESPVLF LREDVGNVKFDIRYIVLLRSVRPLRLFAYDVFWR LRF
 SNRPFALDDDDYEKHTVMNYDPDVVLKQVHYNEFIPQFEKQYEPFWSVDQAEIFKAFTELFQVACAK
 PPPMGLCDYPSSRAMYAIDLMLNWDNHPDGKRMQPQIILEVNFNPDCERACRYHPSFFNDVFSTLFLDET
 DNCHVTRII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_183017

ORF Size: 1920 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_183017.1](#), [NP_898838.1](#)

RefSeq Size: 3770 bp

RefSeq ORF: 1920 bp

Locus ID: 223723

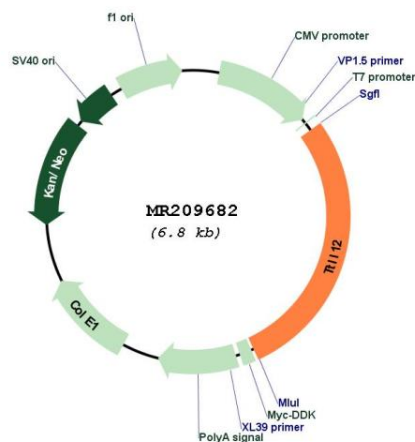
UniProt ID: [Q3UDE2](#)

Cytogenetics: 15 E1

MW: 74 kDa

Gene Summary: Negatively regulates post-translational modifications of tubulin, including detyrosination of the C-terminus and polyglutamylation of glutamate residues. Also, indirectly promotes histone H4 trimethylation at 'Lys-20' (H4K20me3). Probably by controlling tubulin and/or histone H4 post-translational modifications, plays a role in mitosis and in maintaining chromosome number stability. During RNA virus-mediated infection, acts as a negative regulator of the DDX58/RIG-I pathway by preventing MAVS binding to TBK1 and IKKε. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209682