

## Product datasheet for **MG209682**

### **Ttll12 (NM\_183017) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ttll12 (NM_183017) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ttll12
Synonyms:	BC055368; D430005B17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG209682 representing NM\_183017  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGATCCAGTCCGGGCCGACGCTGGCAGTCCCGGCCGCGCCGAGAGGCTGAACGCGGGCTGCTGG  
 ACGAGTTCGTGTCGCTGCACGGCCCTACGCTGCGCGCCTCGGGAGTCCCAGAGCGACTATGGGGCCGCT  
 TCTGCACAAGCTGGAGCACGAGGTTTTTCGATGCCGGGAGATGTTTGGGATAAAGCAGGTGGAGGAGGTG  
 GAGGAGGCTGAGGACGAGGCCGCCAGGGAGGCTCAGAGGAAGCAGCCAAACCCTGGGGCGAGCTGTGCT  
 ACAAGGTCATTGTGACCACTGAGAGCGCGTCCGGGCTGACGACCCCAACAGCATCTTCTCATCGACCA  
 TGCCTGGACGTGCCGTGTGGAGCATGCACGAAACAGCTGCAGCAGGTACCTGGACTCCTGCACCGGATG  
 GCCAACCTCATGGGCATCGAGTTCATGGGAAGTCCCAGCCCAGAGGTTGTGGCCCTAGTGTGGAGG  
 AGATGTGGAAATCAACCAGACCTATCAGTGGCCATGGGACAGCCGAAGAGAAGGTGCCAGTGTGGTA  
 CATCATGGACGAGTTTGGCTCGAGGATCCAGCACTCAGACATGCCAGCTTCGCCACTGCTCCCTTCTTC  
 TACATGCCCCAGCAGGTGGCATACACGCTGCTGTGGCCCTAAGGGACCTAGACACAGGCGAGGAGGTGA  
 CCCGGGACTTTGCCTACGGAGAGGCAGACCCTCTGATCCGGAAATGCATGCTGCTGCCCTGGGCCCCCGC  
 CGACATGCTGGACCTCAGCTTCTACGCTGAGCCTCCTGCCAAGTACTACCAGGCCATTTTGGAGGAG  
 AACAAGGAGAAATGCCGCTCGCCATTAGCCCAGTGGCACGTCCCAGGGCCACGTCTTCAGAGTCCACT  
 GCGACGTGCAGCAGGTGCTCGGCCACCTTACCCACCTCGCTTACCTTCACTGATAGCGAGGCTGATGC  
 CGACATCTTCTCACTTCTCACACTCAAGGACTACATGAAACTCAGCCAAGAGAGCCACAGGTGCTA  
 CTCAACCACTCCCCTGTGAGAATCTGCTGACTGTTAAGGACTGTCTGGCCTCCATCGCTCGCCGGGCTG  
 GGGTCCCTGAGGGTCCCCCTGGCTACCCCGAACCTTCAACCTGCGCACTGAGCTGCCCACTTTGTCCAG  
 CTATTTCCAGCACCGGGAGAGGGGGTGAAGACAACCACTGGATCTGCAAGCCCTGGAACCTGGCCCGC  
 AGCCTGGACACTCACGTACCAACAACCTCCACAGTATCATTGCGCACCGAGAGACACCCCAAGTTG  
 TGTCCAAGTACATCGAAAGTCCCGTCTTGTTCCTCCGAGAAGATGTGGGAAACGTCAGTTTGCATCCG  
 CTACATTGTGCTGCTGCGCTCAGTGAAGCCGCTGAGGTTGTTTGTACGATGTGTTTTGGCTACGCTTC  
 TCCAATCGGCCCTTCGCCCTCGATGACCTAGACGACTATGAGAAGCATTTACCGTCATGAACTATGACC  
 CGGATGTGGTGTGAAGCAGGTGCACTATAATGAGTTCATCCCTCAGTTTGAAGCAGTACCCAGAGTT  
 TCCCTGGAGTGTGTTCAAGGCTGAGATCTCAAGGCTTACGGAGCTGTTCAAGTGGCATGTGCCAAG  
 CCACCGCCATGGCCTCTGTGACTACCCCTCATCCCGGCCATGTATGCCATTGATCTCATGCTCAACT  
 GGGACAACCAACCCAGATGGAAAGCGGGTATGCAGCCCCAAATCCTGGAGGTGAACCTTCAACCCGACTG  
 CGAGCGAGCCTGCAGATACCACCCTCATTCTCAATGATGTCTTCAGCACTTTGTTTCTGGACGAGACT  
 GACAACTGCCATGTCACCCGCATCATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209682 representing NM\_183017  
 Red=Cloning site Green=Tags(s)

MEIQSGPQPGSPGRAERLNARLLDEFVSLHGPTLRASGVPERLWGRLLHKLEHEVFDAGEMFGIKQVEEV  
 EEAEDAAREAQRKQPNPGGELCYKVIIVTSESGVRADDPNSIFLIDHAWTCRVEHARKQLQQVPLLRHM  
 ANLMGIEFHGEVPSPEVVALVLEEMWKFNQTYQLAHGTAEEKVPVWYIMDEFGSRIQHSMPFSFATAPFF  
 YMPQQVAYTLLWPLRDLDTGEEVTRDFAYGEADPLIRKCM LLPWAPADMLDLFSFTEPPAKYYQAIL EE  
 NKEKLPLAISPVARPQGHVFRVHCDVQQVLGHLTHPRFTFDSEADADIFFHFSHFKDYMKLSQESQVL  
 LNQFPCENLLTVKDLASLARRAGGPEGPPWLPRTFNLRTELQPVSFYQHRERRGEDNHWICKPWNLAR  
 SLDTHVTNNLHSIIRHRESTPKVVSKEYIESPVLFLREDVGNVKFDIRYIVLLRSVRPLRLFAYDVFWRFL  
 SNRPFALDDLDDYEKHFVTMNYDPDVVLKQVHYNEFIPQFEKQYPEFPWSDVQAEIFKAFTELFQVACAK  
 PPPMGLCDYPSRAMYAIDLMLNWDNHPDGKRMVMPQILEVFNPNDCERACRYHPSFFNDVSTLFLDET  
 DNCHVTRII

**TRTRPLE** - GFP Tag - V

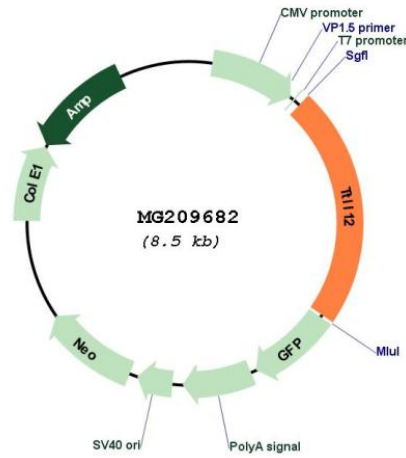
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_183017

ORF Size: 1917 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_183017.1</a> , <a href="#">NP_898838.1</a>
<b>RefSeq Size:</b>	3055 bp
<b>RefSeq ORF:</b>	1920 bp
<b>Locus ID:</b>	223723
<b>UniProt ID:</b>	<a href="#">Q3UDE2</a>
<b>Cytogenetics:</b>	15 E1
<b>Gene Summary:</b>	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]