

## Product datasheet for **MC222427**

### **Ttll7 (NM\_027594) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ttll7 (NM_027594) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ttll7
Synonyms:	1110049N09Rik; 4921517B04Rik; C630030B20; Ttll7s
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222427 representing NM\_027594  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCATCTCTGCCTCAAGATGGGGTTATTCAGGGATCATCTCCTGTGGATCTGGGTACAGAATTACCTT  
 ACCAATGCACAATGAAAAGGAAAGTGAGAAAAAGAAGAAGGAATTATTACAGCTAATGTTGCCGG  
 AACAAAGTTTGAATTTGTTCTGTTAGTAATAGATGAGATGGGATTTATGAAAACCTCTGATGAAGATGAG  
 ACAAGCAATCTTATCTGGTGTGATGCTGCTGTTACGACAGGAGAAGATTACAGACCTGCAGAACTACCAGA  
 GAATCAACCATTTCCAGGAATGGGAGAGATCTGTAGGAAGGATTTCTTAGCAAGAAATATGACGAAAAT  
 GATCAAGTCTCGGCCTATGGATTATACCTTTGTTCCGAGAACGTGGATTTCCCTTCTGAATATACTCAG  
 TTCCAAAATATGTGAAAGAATTGAAGAAAAACGGAAGCAGAAAACCTTTATAGTAAAACCAGCTAATG  
 GTGCAATGGGTGATGGGATTTTCATTGATAAGAAATGGGGATAAAGTCCCTTCTCAGGATCATTGATAGT  
 TCAAGAATACATTGAGAAACCTTCTCTAATGGAAGGCTACAAGTTGACTTACGGATTTATATTTGGTT  
 ACATCCTGTGATCCATTAAGATATTTCTCTACCATGATGGGCTGTGCGCATGGCACTGAGAAGTACA  
 TCCCAACAAACGAGTCCAACTTGACCCAGTTATACATGCATCTGACCAACTACTCAGTGAACAAACACAA  
 TGAACGGTTTGAGCGCAATGAACTGAAGACAAAGGCAGCAAGCGGTCAATCAAGTGGTTTACGGAATTC  
 CTACAGGCCAATCAACATGATGTCACTAAGTCTGGAGTGATATTTACAGAGTTGGTGGTAAAGACTCTGA  
 TTGTGGCAGAACCTCACGTCCTGCACGCCTACCGGATGTGCAGACCCGGTCAGCCCCCGGGAGCGAAAAG  
 TGTCTGCTCGAAGTCTGGGGTTCGACATCTTGTGGATAGAAAGCTCAAGCCATGGCTTCTGGAGATT  
 AATCGAGCCCCAAGCTTTGGAACCTGATCAGAAAATCGATTATGATGTTAAAAGGGGGTTCTGCTAAACG  
 CGCTGAAGCTGCTGAACATCAGGACCAGCGATAAAAAGGAAAAACTTGGCCAAGCAAAAACGGGAGGCTCA  
 GAGGAGGCTGTACGGTCAAAACCCAGTAAGAAGGCTTTTCGCCAGGCTCCTCCGACTGGGAACAGCAGAGG  
 CACCAGCTGGAGAGGCGGAAAGAAGAGTTGAAAGAGAGACTCCTTCAAGTACGAAAGCAGGTTTTCGAGG  
 AAGAACATGAAAACCGACATATGGGGAATTACAGGAGAATTTATCCTCCTGAAGACAAAGCACTGCTTGA  
 GAAGTATGAAGTTTGTGGCCGTCGCCTTCCAGACCTTCTCCTCGGAAAGAGCAGCTTCATTCCAGCGA  
 GAAATGAACAATCCTCTGAAAAGATGCGGGAGGAAGTCTCCTGGATCTTCTGGAGCAGTGCGAAATCG  
 ATGATGAAAAGCTGATGGGGAAAACCGCCGGTCCGAGGACCGAAGCCCTGTGCTGCATGCCAGAGTG  
 TGCAGAGGTCACGAAGAAGCAGAAGTATTACGGTAGCAGTGACAGCAGCTACGACAGCAGCAGCAGCAGC  
 AGCAATTCAGAGCTGGATGAGAACGAAAAGAGCTGTGTCAGAAGAGACTAGACCAAGTCCCATATAGCC  
 TTAAGCACACCAGTCACTGCAAGATAATCCAGCAATCCAATTCATGAGGCGTTCGGTCACTGCCCTCG  
 GTCCATCTCTGCTCACTTACCTTCCAGAGGGGATGTGCGCCCTTTTCTTCTCAACAAGTATACCATTA  
 GCAAGACCAACGTCAGCGTCCCAGTACATTCCTTAAACCGCGCTTATCCTACGCGAGACACCTGCCTC  
 ACGGCAGTGACACCGGCTTACCAACACTCTGGTAAGCTATCAGTGGAACGAGTCTTTCGCGCAATTGAA  
 AACCAAGAGCAGGAAGACGACCTCACCAGTCAAGCTTGTGTTGCTCCTCAAGGACATGAGAATCCGCTTT  
 CCGGGGAAGTCAAGCAGAGTCCGAGCTCCTGATAGAAGATATCATGGATAACTGGAAGCATTAAAAA  
 CAAAAGTGGCTTCATATTGGCTCATAAAATGGACTCTGTAACAACCGGAAAGTTTGGACATAGTAAA  
 ATCAAGTATTCGTACAGTCTTCCAAGAATCTGGAGGTCCTGATGCTGAAGAAGTGGTTTATACCGG  
 ATTTTCAACAGGGTATTTAATCGCTACTCTGGAGTATGGCCAAGGACTGTGGAGCTGTTTCTGTGATT  
 CAGGATCCTCTTGGGAGAGCATTTCAAGTAAAGCCCTGAGGTGGTGACCCCTCTGCAGCTCCAGTGCTG  
 CCAGCGCCTGGTGGAGCTTTGCAAGCAGTGCCTGCTGGTGGTTTACAAATACACAACAGAAAACAAGAGGA  
 CCCATCTCAGGCATCGGTCTGACTGGGGAACTCCAGGTATTTGCTACCAGGAAGTACCAATTTCTTA  
 TGAGATCACCACTGTACAACATGAAATATAATTCACCCGAATGACTCGCTCCAATGTTTTGTTTACGTC  
 CCGCTATGGCCGTTTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_027594

<b>Insert Size:</b>	2679 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_027594.1</a></u> , <u><a href="#">NP_081870.1</a></u>
<b>RefSeq Size:</b>	6075 bp
<b>RefSeq ORF:</b>	2679 bp
<b>Locus ID:</b>	70892
<b>Cytogenetics:</b>	3 H2
<b>Gene Summary:</b>	Polyglutamylase which preferentially modifies beta-tubulin (PubMed:16901895, PubMed:17499049, PubMed:19152315). Mediates both ATP-dependent initiation and elongation of polyglutamylation of microtubules (PubMed:16901895, PubMed:19152315). Required for neurite growth; responsible for the strong increase in tubulin polyglutamylation during postnatal neuronal maturation (PubMed:16901895).[UniProtKB/Swiss-Prot Function]