

Product datasheet for **MC228457**

Ttll7 (NM_001302958) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttll7 (NM_001302958) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ttll7
Synonyms:	1110049N09Rik; 4921517B04Rik; C630030B20; mTTLL7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228457 representing NM_001302958
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCATCTCTGCCTCAAGATGGGGTTATTCAGGGATCATCTCCTGTGGATCTGGGTACAGAATTACCTT
ACCAATGCACAATGAAAAGGAAAGTGAGAAAAAGAAGAAGGAATTATTACAGCTAATGTTGCCGG
AACAAAGTTTGAATTTGCTTTAGTAATAGATGAGATGGGATTTATGAAAACCTCTGATGAAGATGAG
ACAAGCAATCTTATCTGGTGTGATGCTGCTGTTACGAGGAGAAGATTACAGACCTGCAGAACTACCAGA
GAATCAACCATTTCCAGGAATGGGAGAGATCTGTAGGAAGGATTTCTTAGCAAGAAATATGACGAAAAT
GATCAAGTCTCGGCTATGGATTATACCTTTGTTCCGAGAACGTGGATTTCCCTTCTGAATATACTCAG
TTCCAAAATATGTGAAAGAATTGAAGAAAAACGGAAGCAGAAAACCTTTATAGTAAAACCAGCTAATG
GTGCAATGGGTGATGGGATTTTCATTGATAAGAAATGGGGATAAAGTCCCTTCTCAGGATCATTGATAGT
TCAAGAATACATTGAGAAACCTTCTCTAATGGAAGGCTACAAGTTGACTTACGGATTTATATTTGGTT
ACATCCTGTGATCCATTAAGATATTTCTCTACCATGATGGGCTTGTGCGCATGGGCACTGAGAAGTACA
TCCCACAAACGAGTCCAACTTGACCCAGTTATACATGCATCTGACCAACTACTCAGTGAACAAACACAA
TGAACGGTTTGAGCGCAATGAACTGAAGACAAAGGCAGCAAGCGGTCAATCAAGTGGTTTACGGAATTC
CTACAGGCCAATCAACATGATGTCACTAAGTCTGGAGTGATATTTACAGATTGGTGGTAAAGACTCTGA
TTGTGGCAGAACCTCACGTCTGCACGCCTACCGGATGTGCAGACCCGGTCAGCCCCGGGAGCGAAAAG
TGTCTGCTCGAAGTCTGGGGTTCGACATCTTGTGGATAGAAAGCTCAAGCCATGGCTTCTGGAGATT
AATCGAGCCCCAAGCTTTGGAAGTGCAGAAAATCGATTATGATGTTAAAAGGGGGTTCTGCTAAACG
CGCTGAAGTCTGAACATCAGGACAGCGATAAAAGGAAAAACTGGCCAAGCAAAAAGCGGAGGCTCA
GAGGAGGCTGTACGGTCAAACCCAGTAAGAAGGCTTTCCGAGGCTCCTCCGACTGGGAACAGCAGAGG
CACCAGCTGGAGAGGCGGAAAGAAGAGTTGAAAGAGAGACTCCTTCAAGTACGAAAGCAGGTTTCGAGG
AAGAACATGAAAACCGACATATGGGGAATTACAGGAGAATTTATCCTCCTGAAGACAAAGCACTGCTTGA
GAAGTATGAAGTTTGTGGCCGTCGCCTTCCAGACCTTCTCCTCGGGAAGAGCAGCTTCATTCCAGCGA
GAAATGAACAATCCTCTGAAAAGATGCGGGAGGAAGATCTCCTGGATCTTCTGGAGCAGTGCGAAATCG
ATGATGAAAAGCTGATGGGAAAACCGCCGGTCCGAGGACCGAAGCCCTGTGCTGCATGCCAGAGTG
TGCAGAGGTCACGAAGAAGCAGAAGTATTACGGTAGCAGTGACAGCAGCTACGACAGCAGCAGCAGCAGC
AGCAATTCAGAGCTGGATGAGAACGAAAAGAGCTGTGTCAGAAGAGACTAGACCAAGTCCCATATAGCC
TTAAGCACACCAGTCACTGCAAGATAATCCAGCAATCCAGTAAGTCAATCTCTCTCATATCGTTAGAGGA
AGAACTA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001302958

Insert Size: 1830 bp

OTI Disclaimer: 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001302958.1](#), [NP_001289887.1](#)

RefSeq Size: 2265 bp

RefSeq ORF: 1830 bp

Locus ID: 70892

UniProt ID: [A4Q9F0](#)

Cytogenetics: 3 H2

Gene Summary: 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] Transcript Variant: This variant (2) lacks several 3' exons but includes an alternate 3' terminal exon, and it thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (TtlI7s) has a distinct C-terminus and is shorter than isoform TtlI7.