

Product datasheet for **MC221968**

Ttll8 (NM_172818) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttll8 (NM_172818) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ttll8
Synonyms:	1700019P01Rik; 4933401B17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC221968 representing NM_172818
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTCGTGTCCCCGACCCCAAACCTCCTTTAGGCCTCCCTCCACACCCGGTCTCCGAACCCAC
 CCTTGCCCTCCCTGGGTATGTCTGAACCTCTAAATCTTTGTCAACAGGGGTTGGGGGCCAAAAGAACCAGCT
 ACGAGAGGCGAGCATGGAGAACGGCGAGAGGAAGAAGCTGTCTTCCACTTTGTGAGATGGAGATCAGAAA
 GAAGAAAATAAGTTAAAACAAGGAATCCCAAGATTTGTCTTCTCCCAAAATTAGACAGATACAAAA
 TAGCAAGACAGTTAACAGAAAAAGCCATCAAGGAGAGGAAGATTTTCTCCATCTATGGACACTACCTGT
 CATCCGGGCCACCTTGCAAGAAAGGGCTGGGTGGAGAAGAAGTTCAATTTCTCCCAAGCTCTCCAG
 AACCTTGAAGTGAAGATAAAGTGCTGAGACCAAGAAAATCAAGAAATAGCCTTGGAGAGATTCGATG
 ATATCCACGATGTGATGTCCAGGTTGGTAAAGAACGAGATCCCATACCTCCTCTGGACTATCAAGAGGGA
 TGTTGTGGACTACCACAGCCTGACCTGTGACCAGATGCTAAATCACTACGGGAAGACAGCATCATTACA
 ACCAAGATTGGACTCTGCCTGAACATGAGAAGTCTGCCTTGGTACGTCCAAGCCAACCCGAACACCTTCT
 TCCACCGTGCTATGGCCTTTGCACTGAGAGCGAGAAGCAGGAATTCTTGGATGACTTCCGGCGCACGGT
 GGCTGCCAGCATCCTCAAGTGGGTAGTCCTTACCAGAATTACTGCAGCAAGTCAAGGGCAAGAGTAAG
 AAGGAGGAGGCCAAGAACAGTGACCCAGCCCCAAGAAAGATCCTGAAAACTGACCTCAAGCTACCAA
 GCCTCTCGGGACAGGTTGTAGACACAGCTTGCAAGGTGTGCCAGGCCTACCTGGGACAGCTAGAGCATGA
 AGACATAGACGTATCGGAGGCCAGCACCAGGCCTTGTCTGAGGAGGAATGGAATGACCTGACACAGCAG
 TACTATCTACTGGTTCATGGCAATGCTTCCATCACTGATTCGAAAAGTTACTTTGCGCAATGCCAAGCTC
 TGCTGAGTAAGATCAGTTCTGTGAACCTCAGACAGAGATCGATGGGATCCGGAACATCTGGATCATAAA
 GCCTGCAGCCAAGTCCCGGGGTGAGATATTGTGTGTATGGACCGTGTGGAGAACATCCTGAGTCTGGTG
 GCCGCAGACAGCCAGACCACAAAGGACAACAAATGGGTGGTCCAGAAGTACATCGAGACCCCAATGCTCA
 TCTACGACACCAAGTTTGACATCAGACAGTGGTTCCTCGTCACAGACTGGAATCCCTAACCATCTGGTT
 CTACAAAGAAAGCTACCTCCGCTTCTCCACACAGCGCTTCTCCCTGGACAAGCTGGACAGCGCCATCCAC
 CTGTGTAACAACCTCCATCCAGAGCGCCTCAAAAATGATAAAGAGCGCAGTCCGCTGCTACCTTGTGATA
 ACATGTGGACCAGCACTCGTTTCCAGGAGTACCTGCAGAAGAGGGGCCGAGGAGGAACGTGGGTAGCAT
 CATCTACCCGTCTATGAAAAGAGCTGTCACCAATGCCATGAGGGTAGCCAGGACCAGTAGAAGCCCGT
 AAGAACAGCTTCGAGCTCTACGGAGCCGACTTCATCCTGGGGCGAGACTTCAAGCCATGGCTTATCGAGA
 TCAACTCCAGCCCCACCATGCACCCCTCCACTCCCGTCACAGCTCAGCTCTGTGCCAGGTGCAGGAGGA
 CACCATCAAGGTGGTGGTGGATCGCAAACCTGGACCGAACTGTGACATCGGCAACTTTGAGCTTCTGTGG
 CGGCAGCTGCCGTGGAGCTGCCACCGTTCAACGGGTCTGACCTCTGTGTGGAAGGTATCAGCGTGAAGA
 AAGCCAAGAAGCAAAATGCCGCCATTGCCAGCGTCGGCCTCTCAGAATCACTCTTAGATGCTCCACCCAA
 AGTGCGGAGTGCCCGGGCCCTGATGGAACAGTGATCAGGCCTCCAAGAACGACCGTGCGGCAGGACTGG
 AAACGGGAAGAAGCAAAGGTACTTTCAACCACTTGGTCCATGCCAGTAATGGATGCAGAGGTGAGAGGTC
 GAGCAAAGCCCATCTATGCATTGAGGTCAATGACTACCAACATGTAGACAATAAGTCCCACAAGAGCGG
 TTATACCAGAGTCCAATCCAGTAAAGTCCAGGGGTAACTTAACAAGTGCACAGCACCCCTGCCCTGTTT
 GCACAGACTATGAAACCCACACAGATGACCTCGTCTCCACCACCACTGCGTCAGGTAACCATAGAGACT
 CTTGCGCTTTCTGTCCCATTGTATTTGAGGAACCTGGCTCCACCCCAATTCTCAGAGACGACCTTCAAG
 CTGTATTCTCAAAGCAGGGCACAGGGCTGGATCAGGGGGATCCCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_172818

Insert Size:

2499 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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_172818.3, NP_766406.2</u>
RefSeq Size:	2976 bp
RefSeq ORF:	2499 bp
Locus ID:	239591
UniProt ID:	<u>A4Q9F1</u>
Cytogenetics:	15 E3
Gene Summary:	Monoglycylase which modifies both tubulin and non-tubulin proteins, generating side chains of glycine on the gamma-carboxyl groups of specific glutamate residues of target proteins. Monoglycylates tubulin, with a preference for alpha-tubulin toward beta-tubulin. Has the ability to modify non-tubulin proteins such as ANP32A, ANP32B, SET and NCL. Involved in the side-chain initiation step of the glycylation reaction by adding a single glycine chain to generate monoglycine side chains. Not involved in elongation step of the polyglycylation reaction.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (1). CCDS Note: The coding region has been updated to extend the N-terminus to an upstream in-frame start codon. The uAUG appears to be restricted to rat and mouse, and has a weak Kozak signal compared to a strong one for the better conserved downstream AUG, which raises the possibility of the dAUG being use due to leaky scanning. The update changes the protein length from 781 aa to 832 aa, but the splice sites are unaffected.