

Product datasheet for **RN217146**

Ttll10 (NM_001170533) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttll10 (NM_001170533) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ttll10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN217146 representing NM_001170533
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTTTAAACGCATCTCCTGCTCGTACCGGGGTGTGATTTCTGCCAGTCTTTATATCTGAACAGCAGAC
 ACAGAGGCCACACTCATCGAGGCCAGGACAGTCTTGCCGAAGAAAACCTACTAGGCAGAGCGGGATGC
 AAAGATGCCCTTACACCCACCGGCCAGAAGGCCTCACGGCCATCGCAGAAATGGAAGTGAGGCACAAACA
 GAAGCTACAACCCAGGATACAGGGAGGCTTTCTTGCCCAAGAAGGGTGGGTGCAGCGGTCTGTCCCATCC
 AAGGGCTGGGACATCGGGCTGCTCGAAGACCCGAAGGGGTGTAGGGACTACATCTGCCTCAAGGGCTCC
 ACGTCTGGTGCCCTTATGCCTGCAACGCGCAACCGTCCAAGATTCATCCACTACCGGGTTCAACCCCT
 CGGACCCATGTCAGCTTCAAGAGACCAACCGTCCAGGACCCATCAATCCACACTAAGGTGCCAGGCT
 GGACCCATGAGAAACGGATGGGGAGCAGTGTGAGGAAGGGCTCCGGCCTGAGCTAAGTCAGCTGGAACA
 AGATGCAGACAACCTAGGGGAAGAAGAAGCTGCCAGGCTCCCGGTGACTTCCCTGAATGGGCTCCTGATG
 GAAGGAGACAGGCATCCCAATCCTGGTCAAGGGCCCTTTCTTCTACATCGGAGGCACCAATGGAGCGTCAA
 TAATCAGCAACTACTGTGAGAGCAAGGGCTGGCAACGCACTCAGGACAGTCGCTGTGAGGACTACAAGCT
 AAAGTGGTGTGAGATCAAGTGCAGGGACAACCTACTGCAGCTTCCGGGAAGGCCAGCAGTTGCTGTCCAG
 CTTCCCAACAACAGCTGCTTACTACCAAGATCGGGTGTCTAGTGTCTGCGGGAGCATGCACGCACTT
 TGAGCAAGGCCAGGCTAATGCCAGTACCCAGGCCAAGGTCTGAAAAATGGATGAGTTTTTCCAGAGAC
 CTATCGGCTGGACATCAGGGATGAGAGACAGGCTTTCTTCACTCTGTTTGATGAAACCCAGATGTGGATC
 TGCAAGCCTACAGCCTCAACCCAGGGAAGGGCATCTTCTGATCAGGAGCCAAGAGGAGGCTGTGCCC
 TGCAGGCCAAGACCCAGAGCATTGAGGATGACCCATCTACCGCAAGATGCCCTTCCGTGACCCAGGC
 GCGAGTGGTGCAGAGATATGTCCAGAACCCTGCTGCTAGATGGGAAGAAGTTTGATGTGCGCTCTTAC
 ATGCTCATTGCCTGCGCCATGCCCTACATGGTCTTTTTTGGCCATGGCTATGCCCGCCTACCCCTCAGCC
 TGTATAACCTCATTCCAGTGACCTCAGTGGTCAATTTGACCAATCAGTTCATGCAGAAGAAGAGTCCCT
 GTACATGCTGCTGAAAGACAGCACCGTGTGGAGCATGGAGCACCTCAACCGATACATCAATGACAAATTT
 AGGAAGTCCAAGGGCCTCCCGAGAGATTGGGTCTTACCACCTTCACGAAGCGGATGCAGCAGATCATGT
 CCCACTGCTTCTGGCTGTCAAGTCCAAGCTGGAGTGAAGCTGGGTACTTTGACCTCATTGGCTGTGA
 TTTCTGATTGATGAAACTTCAAGGTGTGGCTGCTGGAGATGAACCTCAACCCCTGCCCTACATACCAAT
 TGTGAAGTCTGAAGGAGGTGATTCCTGGAGTGGTTATGGAGACCTTGGACCTGGCGCTTGAGACCTGCC
 AAAAGAGTTTGACAGTCAGAAGATGCTGCCTCTGCAGTCACAGCGTCGCTTTGTGCTCCTTTACAATGG
 CGAGACTACAGACTTGTGGCCGCGCTTGGGGAGCTCACGCCACCTATCCGCTTGCTTATGCTAACTCT
 AACCATGCCCCTGCCACCTGCGAAATCTCATCCTCTTCGCTTACCTCAACACGTGTCACTATCGCAGACC
 GGCTGCGGCACGCAAGTCGATGTCTTCCAGAACAGCTCCCATTTGCGCCTCCCGCAATCGCGGCTGTC
 TGACTCGGGCGGTGTCTCCATAGAGGAGTCTGAGACCTCTGTTTGTCTGGGCTCCCGGAAGGCAGCAGG
 GACGCAGCCCGGAACCTCCCTGGGGCCAACCGAGGAAGAGCGAGAGGAGGAACAGAGGAGCACGAGCC
 ATCGAGGCTCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001170533
Insert Size: 2184 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:	<u>NM_001170533.1, NP_001164004.1</u>
RefSeq Size:	2379 bp
RefSeq ORF:	2184 bp
Locus ID:	298692
UniProt ID:	<u>Q5XI57</u>
Cytogenetics:	5q36
Gene Summary:	Polyglycylase 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. Polyglycylates alpha-tubulin and beta-tubulin, but is not able to initiate glycylation and only has activity toward monoglycylated tubulin. Has the ability to polyglycylate non-tubulin proteins such as NAP1; in this case it can initiate glycylation and does not require preliminary monoglycylation by another glycyllase (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).