

Product datasheet for **SC123331**

TLL6 (NM_173623) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLL6 (NM_173623) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLL6
Synonyms:	TTL.6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_173623 edited
CAGTCTAAGGGCACAGAAATGGAAAGTTCTCATTTTCTCCTCCAATGAGAATTGGCACC
CCAACAGCAGGCCCTGGGCCCTCGGCTGTGATGGAGGGTGTCTCGGGTAGCAGTACTA
AGGAAGCTCTCCACCTTCAGTGCATACTGGAGGACCACAGCTACAACGTGGAGCAGATA
TGGAGGGATATTGAGGACGTCAATCAAGACCCTCATCTCGGCCACCCATCATCAGG
CATAACTACCACACCTGCTTCCCAACCACACTCAACAGCGCTGCTTTGAGATCCTG
GGCTTTGACATTTTGTGGACCACAACTCAAACCTGGCTGCTGGAGGTCAACCACTCT
CCAAGCTTCTCCACCGACTCTCGGTTGGATAAAGAGGTGAAAGATGGTCTGCTGTATGAC
ACCTTAGTCTGATCAACCTGGAAGCTGTGACAAGAAGAAAGTCTTGGAGGAGGAGAGA
CAACGGGGCAGTTCTGCAGCAGTGTGTTCTCGGGAGATGAGGATTGAGGAAGCCAAG
GGTTTCCGGCCGTGCAGTTAAAGAAAAGTAAACGTATGAGAAGGAAAAGTGTGGAGGG
TTCCGACTGATTTATCCAGTCTGAATTCGAGAAAGTATGAGAAGTTTTCCAGGACAAC
AACTCCCTCTCCAGAATACTGTTGCTTCCAGGGCTCGGAGGAGTATGCCCGCAACTG
ATCCAGGAGCTGAGACTAAAACGGGAGAAAAAGCCCTTCAAATGAAGAAGAAGGTAGAG
ATGACAGGGGAATCGGCAGGCGAGCAAGTGAGAAAGAAGGCATGAGGGCTGGCAACAG
AAACAACAGCAGAAAGACAAGGCCGCCACCAAGCCTCAAACAGTACATCCAGCCATTG
ACATTAGTATCCTACACCTGACTTGCTTGTAGTGTGACAGGTTGAAAGGAAAAATGAA
ACAGACAGCAGCCTCAACCAGGAGGCTCCACGGAGGAGGCCAGCTCTGTTTTCCCAAG
CTGACGCTGCGAAGCCCTTCAGTTCTTACCCGATCTGAGGAATATCAATCTCAGCAGC
TCGAAGTTGGAGCCAGTAAACCAACTCAGCATCAAGGAGGCCAAGTCTGCCTCTGCA
GTGAACGTATTCAGTGGCACTGTGCACTTAACCTCCGTAGAAACCACCCAGAATCCACC
ACCCAATCTCAATCTCCCAAAGTCTCCGCCAACCTGGCTGTGACCCAGCTCTGAG
TACAGTGGCCAGAGACGGACAGGGTGGTATCCTTTAAATGCAAGAAGCAGCAGACCCCT
CCACACTTAACCCAGAAGAAAATGTTAAAATCTTTTCTGCCACAAAATCCAAGAGCTTC
TGGGAGAGTCCGAACACAACTGGACTTTGCTAAAGAGTGACATGAACAAGCCACATTTG
ATATCCGAGTACTACCAAGCTTCAACTGAGTGGGAAGCTCTCCTTCTCCAGCTCAC
TACAACCCCAAGCTGGGGATGAATAACCTGTACAAAACCCCTCCCTGCCTGGGGAGTGC
CACTCCCGCAGTGACAGCTCTGGCGAGAAGAGGCAGCTGGATGTGTCTCCCTCCTTTG
CAGAGTCTCAGAGCTAATGTTACTCTGAGGGACCTGCTGGTATTGCCACTCCAGCC
CAACTGGATCCAAGGCCTTGTAGAAGCCACGCAAGTGCTATGAGGGACCCATGTATGCAG
GATCAAGAAGCATACAGCCATTGCCTGATCTCTGGCCAAAAGGATGTGAGAGGAGCTAG
AATCAGACTGGATCTCTGCCACTTTCCCTTCTACCTCTAACTTGCAGGAAACAATGT
GTCTCTCCGGCAGTGTCTCCAGTGTTACAGAATCAACTGAAGTTTTGTTGCTCATCT
AGATATACTGGTCTTCCATTAGTTCTAGTAGCAGCAGTGGGGCCAACAGCCCTGCCTCT
GTTCCCTCCCAGTTAGCTTACAGTGCTACAGGACCATGATTTCTGGGGTTGGATTGGTGC
TGCCCCAGGACACACTCCAGTTGCCGTACCAGTGGCACTTCTCTGGGTTCTTACATGGC
ACCATCATCCAGAATACTCCCCAGATAAAGCAACTTCGGGAGTAGTGTTCAGAGAAGG
ACTCATGATTTCCAGGAGTCAAAAGCCCTCAGTCCACCAACAGAACTATGCCAGTTGGTC
TTCATCTCCAAGATAAAGATGAGGTGAGGTGAGGATGGGCATGGTGCATAACTCTGAGCCCTG
AGTGAGAGAACTGAGGCAGCTGCAACTTACAAGGTCAAGGCCCGACCTCCGCCATCCC
CACCAGCCAAAGACTTGCCACCTCAGTGCCCGAGCATCCTCTGGTGACCTCCCTCACCA
GCCCAACTTAATCTCACCAGTGAACACAGAGGTGAGGCGAGAGTACCCAGCCTGAAGATG
CTTCTTATCAGCCTGCAGAAATGTTACACTTTCCCTCAGGCATCCATTAATAAAAAGA
AATTGCCATGCTTAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_173623 unedited AAGTCAAATTTGTATACGACTCATATAGGCGGCCGCATAAATTTCGTATAGCATACATTA TACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTTCGAGAGCGGCAGTCTA AGGGCACAGAATGGAAAGTTCTCATTTTCCTCCTCCAATGAGAATTGGCACCCCAACAG CAGGCCCTGGGCCCTCGGCTGTGATGGAGGGGTGTCTCGGGTAGCAGTACTAAGGAAGC TCTCCACCTTCAGTGCATACTTGGAGGACCACAGCTACAACGTGGAGCAGATATGGAGGG ATATTGAGGACGTATCATCAAGACCCTCATCTCGGCCACCCCATCATCAGGCATAACT ACCACACCTGCTTCCCAACCACACACTCAACAGCGCCTGCTTTGAGATCCTGGGCTTTG ACATTTTGTGGACCACAACTCAAACCCTGGCTGCTGGAGGTCAACCACTCTCCAAGCT TCTCCACCGACTCTCGGTTGGATAAAGAGGTGAAAGATGGTCTGCTGTATGACACCTTAG TCCTGATCAACCTGGAAAGCTGTGACAAGAAGAAAGTCTTGGAGGAGGAGAGACAACGGG GGCAGTTCCTGCAGCAGTGTGTTCTCGGGAGATGAGGATTGAGGAAGCCAAGGGTTTCC GGGCCGTGCAGTTAAAGAAAAGTAAACGTATGAGAAGGAAAAGTGTGGGAGGTTCCGAC TGATTTATCCCAGTCTGAATTTTCGGAGAGTATGAAGAGTTTTTCCAGNACAACACTCCCT CTTCCAGAATACTGTTGCTTCCAAGGCTCGGGAGGAGTATGCCCGGCACTGATCCCGGA GCTGAGACTAAAACGGGAGAAAAGCCCTTCCAATGAAAAANAAGTANAGATGCAGGGGAA TCCGCAGGCN
Restriction Sites:	Please inquire
ACCN:	NM_173623
Insert Size:	2549 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:	<ol style="list-style-type: none"> 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_173623.1</u> , <u>NP_775894.1</u>
RefSeq Size:	2542 bp
RefSeq ORF:	1710 bp
Locus ID:	284076
UniProt ID:	<u>Q8N841</u>
Cytogenetics:	17q21.32

Gene Summary:

Polyglutamylase which preferentially modifies alpha-tubulin. Mediates tubulin polyglutamylation in cilia. Involved in the side-chain elongation step of the polyglutamylation reaction rather than in the initiation step. Generates long side-chains. Generates polyglutamylation of CGAS, leading to impair the DNA-binding activity of CGAS. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter N-terminus when compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.