

## Product datasheet for **RC229295**

### **TLL6 (NM\_173623) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TLL6 (NM_173623) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TLL6
Synonyms:	TTL.6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC229295 representing NM\_173623  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAATTGGCACCCCAACAGCAGGCCCTGGGCCCTCGGCTGTGATGGAGGGGTGTCTCGGGGTAGCAG  
 AACTAAGGAAGCTCTCCACCTTCAGTGCATACTGGAGGACCACAGCTACAACGTGGAGCAGATATGGAG  
 GGATATTGAGGACGTCATCATCAAGACCCTCATCTCGGCCACCCCATCATCAGGCATAACTACCACACC  
 TGCTTCCCAACACACACTCAACAGCGCTGCTTTGAGATCCTGGGCTTTGACATTTTGTGGACCACA  
 AACTCAAACCTGGCTGCTGGAGGTCAACCACTCTCCAAGCTTCTCCACCGACTCTCGGTTGGATAAAGA  
 GGTGAAAGATGGTCTGCTGTATGACACCTTAGTCTGTCAACCTGGAAGCTGTGACAAGAAGAAAGTC  
 TTGGAGGAGGAGACAACGGGGCAGTTCCTGCAGCAGTGTGTTCTCGGGAGATGAGGATTGAGGAAG  
 CCAAGGGTTCCGGGCCGTGCAGTTAAAGAAAAGTAAACGTATGAGAAGAAAAGTGTGGAGGGTCCG  
 ACTGATTTATCCAGTCTGAATTCGGAGAAGTATGAGAAGTTTTCCAGGACAACAACCTCCTCTCCAG  
 AATACTGTTGCTTCCAGGGCTCGGGAGGAGTATGCCCGCAACTGATCCAGGAGCTGAGACTAAAACGGG  
 AGAAAAAGCCCTTCCAAATGAAGAAGAAGTAGAGATGCAGGGGAATCGGCAGGCGAGCAAGTGAGAAA  
 GAAGGGCATGAGGGGCTGGCAACAGAAACAACAGCAGAAAGACAAGGCCACCCCAAGCCTCCAAACAG  
 TACATCCAGCCATTGACATTAGTATCCTACACACCTGACTTGCTCTTGAGTGTGACAGGTTGAAAGAAAA  
 ATGAAACAGACAGCAGCCTCAACCAGGAGGCTCCACGGAGGAGGCCAGCTCTGTTTTCCCAAGCTGAC  
 GTCTGCGAAGCCCTTCAGTTCTTACCCGATCTGAGGAATATCAATCTCAGCAGCTCGAAGTTGGAGCCC  
 AGTAAACCAACTTCAGCATCAAGGAGGCCAAGTCTGCCTCTGCAGTGAACGTATTCAGTGGCACTGTGC  
 ACTTAACCTCCGTAGAAACCACCCAGAATCCACCACCAACTCTCAATCTCCCAAGTCTCCGCCAAC  
 CCTGGCTGTGACCGCAGCTCTGAGTACAGTGGCCAGAGACGGACAGGGTGGTATCCTTTAAATGCAAG  
 AAGCAGCAGACCCTCCACACTTAACCCAGAAGAAAATGTTAAAATCTTTTCTGCCACAAAATCCAAGA  
 GCTTCTGGGAGAGTCCGAACACAAAAGTGGACTTTGCTAAAGAGTACATGAACAAGCCACATTTGATATC  
 CGAGCTACTACCAAGCTTCAACTGAGTGGGAAGCTCTCCTTCTCCAGCTCACTACAACCCCAAGCTG  
 GGGATGAATAACCTGTACAAAACCCCTCCCTGCCTGGGAGTGCCACTCCCGCAGTGCAGCTCTGGCG  
 AGAAGAGGCGAGTGGATGTCTCCTCCTCTTGCAGAGTCTCAGAGCTATAATGTTACTCTGAGGGA  
 CCTGCTGGTATTGCCACTCCAGCCCAACTGGATCCAAGGCCTTGTAGAAGCCACGCAAGTCTATGAGG  
 GACCCATGTATGCAGGATCAAGAAGCATACAGCCATTGCCTGATCTCTGGCCAAAAGGATGTGAGAGGA  
 GC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC229295 representing NM\_173623  
 Red=Cloning site Green=Tags(s)

MRIGTPTAGPGPSAVMEGCLGVAELRKLSTFSAYLEDHSYNVEQIWRDIEDVLIKTLISAHPIIRHNYHT  
 CFPNHTLNSACFEILGFDILLDHKLPWLLVNHSPSFSTDSRLDKEVKDGLLYDTLVLINLESCDKKKV  
 LEERQRGQFLQCCSREMRIIEAKGFRAVQLKKTETETEKENCGFRLIYPSLNSEKYEKFFQDNNSLFQ  
 NTVASRAREEYARQLIQELRLKREKPFQMKKKVEMQGESAGEQVRKKGMRGWQKQKQKDKAATQASKQ  
 YIQPLTLVSYTPDLLLSVRGERKNETDSSLNQEAPTEEASSVFPKLSAKPSSLPLRNINLSSSKLEP  
 SKPNFSIKEAKSASAVNVFTGTVHLTSVETTPESTTQLSISPKSPPTLAVTASSEYSGPETDRVVSFKCK  
 KQQTTPHLTQKKMLKSLPTKSKSFWESPNTNWTLLKSDMNKPHLISELLTKLQLSGKLSFFPAHYNPKL  
 GMNNLSQNPSPGECRSRSDSSGEKRQLDVSSLLQLSPQSYNVTLRDLLVIATPAQLDPRPCRSHASAMR  
 DPCMQDQEAYSHCLISGQKGCERS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_173623.3</a> , <a href="#">NP_775894.2</a>
<b>RefSeq Size:</b>	2542 bp
<b>RefSeq ORF:</b>	1755 bp
<b>Locus ID:</b>	284076
<b>UniProt ID:</b>	<a href="#">Q8N841</a>
<b>Cytogenetics:</b>	17q21.32
<b>MW:</b>	65.9 kDa
<b>Gene Summary:</b>	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]