

Product datasheet for **SC327930**

TTL6 (NM_173623) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTL6 (NM_173623) Human Untagged Clone
Tag:	Tag Free
Symbol:	TTL6
Synonyms:	TTL.6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC327930 representing NM_173623.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGAATTGGCACCCCAACAGCAGGCCCTGGGCCCTCGGCTGTGATGGAGGGGTGTCTCGGGGTAGCA
GAACAAAGGAAGCTCTCCACCTTCAGTGCATACTTGGAGGACCACAGCTACAACGTGGAGCAGATATGG
AGGGATATTGAGGACGTCAATCAAGACCCTCATCTCGGCCACCCCATCATCAGGCATAACTACCAC
ACCTGTTCCCAACACACACTCAACAGCGCCTGCTTTGAGATCCTGGGCTTTGACATTTTGTGGAC
CACAACTCAAACCTGGCTGCTGGAGGTCAACCACTCTCCAAGCTTCTCCACCGACTCTCGTTGGAT
AAAGAGGTGAAAGATGGTCTGCTGTATGACACCTTAGTCTGTCAACCTGGAAAGCTGTGACAAGAAG
AAAGTCTTGGAGGAGGAGAGACAACGGGGCAGTTCTGCAGCAGTGTGTTCTCGGGAGATGAGGATT
GAGGAAGCCAAGGGTTCCGGGCCGTGCAGTTAAAGAAAAGTAAACGTATGAGAAGGAAAAGTGTGGA
GGGTTCCGACTGATTTATCCAGTCTGAATTCGGAGAAGTATGAGAAGTTTTTCCAGGACAACAACCTCC
CTTTCCAGAATACTGTTGCTTCCAGGGCTCGGGAGGAGTATGCCCGCAACTGATCCAGGAGCTGAGA
CTAAAACGGGAGAAAAGCCCTTCCAAATGAAGAAGAAGGTAGAGATGCAGGGGGAATCGGCAGGGCAG
CAAGTGAGAAAAGAAGGCATGAGGGGCTGGCAACAGAAAACAGCAGAAAAGACAAGGCCGCCACCCAA
GCCTCAAACAGTACATCCAGCCATTGACATTAGTATCCTACACACCTGACTTGCTCTTGAGTGTGAGA
GGTGAAAGGAAAAATGAAACAGACAGCAGCCTCAACCAGGAGGCTCCACGGAGGAGGCCAGCTCTGTT
TTCCCAAGCTGACGTCTGCGAAGCCCTCAGTTCTCTACCCGATCTGAGGAATATCAATCTCAGCAGC
TCGAAGTTGGAGCCCAGTAAACCAACTCAGCATCAAGGAGGCCAAGTCTGCCTCTGCAGTGAACGTA
TCACTGGCACTGTGCACCTAACCTCCGTAGAAACCACCCAGAATCCACCACCAACTCAATCTCC
CCAAAGTCTCGCCAACCCTGGCTGTGACCGCCAGCTCTGAGTACAGTGGCCAGAGACGGACAGGGTG
GTATCCTTTAAATGCAAGAAGCAGCAGACCCCTCCACACTTAACCCAGAAGAAAATGTTAAATCTTTT
CTGCCACAAAATCCAAGAGCTTCTGGGAGAGTCCGAACACAAAAGTGGACTTTGCTAAAGAGTGACATG
AACAAAGCCACATTTGATATCCGAGCTACTACCAAGCTTCAACTGAGTGGGAAGCTCTCCTTCTCCCA
GCTCACTACAACCCCAAGCTGGGGATGAATAACCTGTCACAAAACCCCTCCCTGCCTGGGGAGTGCCAC
TCCCGCAGTGACAGCTCTGGCGAGAAGAGGCAGCTGGATGTGTCCTCCCTCTTGCAGAGTCTCAG
AGCTATAATGTTACTCTGAGGGACCTGCTGGTATTGCCACTCCAGCCCAACTGGATCCAAGGCCTGT
AGAAGCCACGCAAGTGTATGAGGGACCCATGTATGCAGGATCAAGAAGCATAACGCCATTGCTGATC
TCTGGCCAAAAGGATGTGAGAGGAGCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_173623

Insert Size: 1755 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_173623.3](#)

RefSeq Size: 2542 bp

RefSeq ORF: 1755 bp

Locus ID: 284076

UniProt ID: [Q8N841](#)

Cytogenetics: 17q21.32

MW: 65.9 kDa

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.