

Product datasheet for **RG207279**

TLL6 (NM_173623) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLL6 (NM_173623) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TLL6
Synonyms:	TTL.6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207279 representing NM_173623
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGGGTGTCTCGGGTAGCAGTACTAAGGAAGCTCTCCACCTTCAGTGCATACTTGGAGGACCACA
 GCTACAACGTGGAGCAGATATGGAGGGATATTGAGGACGTCATCATCAAGACCCTCATCTCGGCCACCC
 CATCATCAGGCATAACTACCACACTGCTTCCCAACCACACACTCAACAGCGCCTGCTTTGAGATCCTG
 GGCTTTGACATTTTGTGGACCACAACTCAAACCCTGGCTGCTGGAGGTCAACCACTCTCCAAGCTTCT
 CCACCGACTCTCGGTTGGATAAAGAGGTGAAAGATGGTCTGCTGTATGACACCTTAGTCCTGATCAACCT
 GGAAAGCTGTGACAAGAAGAAAGTCTTGGAGGAGGAGAGACAACGGGGCAGTTCCTGCAGCAGTGTGT
 TCTCGGGAGATGAGGATTGAGGAAGCCAAGGGTTCCGGGCCGTGCAGTTAAAGAAAAGTAAACGATG
 AGAAGGAAAAGTGTGGAGGGTCCGACTGATTTATCCCAGTCTGAATTCGGAGAAGTATGAGAAGTTTTT
 CCAGGACAACAACCTCCCTCTCCAGAATACTGTTGCTTCCAGGGCTCGGGAGGAGTATGCCCGCAACTG
 ATCCAGGAGCTGAGACTAAAACGGGAGAAAAGCCCTTCCAAATGAAGAAGAAGGTAGAGATGCAGGGGG
 AATCGGCAGGCGAGCAAGTGAGAAAAGAGGCATGAGGGGCTGGCAACAGAAAACAACAGCAGAAAAGACA
 GGCCGCCACCCAAGCCTCCAACAGTACATCCAGCCATTGACATTAGTATCCTACACACCTGACTTGCTC
 TTGAGTGTGAGAGGTGAAAGGAAAAATGAAACAGACAGCAGCCTCAACCAGGAGGCTCCCACGGAGGAGG
 CCAGCTCTGTTTTCCCAAGCTGACGTCTGCGAAGCCCTTCAGTTCTCTACCCGATCTGAGGAATATCAA
 TCTCAGCAGCTCGAAGTTGGAGCCCAGTAAACCAACTCAGCATCAAGGAGGCCAAGTCTGCCTCTGCA
 GTGAACGTATTCAGTGGCACTGTGCACTTAACCTCCGTAGAAACCACCCAGAATCCACCACCAACTCT
 CAATCTCCCAAAAGTCTCCGCCAACCTGGCTGTGACCGCCAGCTCTGAGTACAGTGGCCAGAGAGCGGA
 CAGGGTGGTATCCTTTAAATGCAAGAAGCAGCAGACCCCTCCACACTTAACCCAGAAGAAAATGTTAAAA
 TCTTTTCTGCCCAAAAATCCAAGACTTCTGGGAGAGTCCGAACACAAAAGTGGACTTTGCTAAAGAGTG
 ACATGAACAAGCCACATTTGATATCCGAGCTACTACCAAGCTTCAACTGAGTGGGAAGCTCTCCTTCTT
 CCCAGCTCACTACAACCCAAGCTGGGGATGAATAACCTGTCACAAAACCCCTCCCTGCCTGGGGAGTGC
 CACTCCCGCAGTGACAGCTCTGGCGAGAAGAGGCAGCTGGATGTGTCTCCCTCCTTGCAGAGTCTCTC
 AGAGCTATAATGTTACTCTGAGGGACCTGCTGGTATTGCCACTCCAGCCCAACTGGATCCAAGGCCTTG
 TAGAAGCCACGCAAGTGCTATGAGGGACCCATGTATGCAGGATCAAGAAGCATAACAGCCATTGCCTGATC
 TCTGGCCAAAAGGATGTGAGAGGAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207279 representing NM_173623
 Red=Cloning site Green=Tags(s)

MEGCLGVAVLRKLSFSALEYDHSYNVEQIWRDIEDVIIKTLISAHPIIRHNYHTCFPNHTLNSACFEIL
 GFDILLDHKLKPWLLLEVNHSPSFSTDSRLDKEVKDGLLYDTLVLINLESCDKKKVLEERQRGQFLQCC
 SREMRIEEAKGFRAVQLKKTETYEKENCGRFLIYPSLNSEKYEFFQDNNSLFQNTVASRAREEYARQL
 IQELRLKREKKPFQMKKVMQGESAGEQVRKKGMRGWQKQKQKDKAATQASKQYIQLTLVSYTPDLL
 LSVRGERKNETDSSLNQEAPTEEASSVFPKLSAKPFSSLPDLRNINLSSSKLEPSKPNFSIKEAKSASA
 VNVFTGTVHLTSVETTPESTTQLSISPKSPPTLAVTASSEYSGPETDRVVSFKCKKQQTTPHLLTQKKMLK
 SFLPTKSKSFWESPNTNWTLLKSDMNKPHLISELLTKLQLSGKLSFFPAHYNPGLGMNLSQNPSPGEC
 HSRSDSSGEKRQLDVSSLLLQSPQSYNVTLRDLLVIATPAQLDPRPCRSHASAMRDPCMQDQEAYSHCLI
 SGQKGCERS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_173623

ORF Size: 1707 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_173623.2](#)

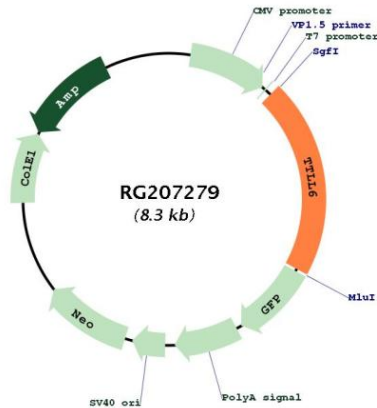
RefSeq Size: 2549 bp

RefSeq ORF: 1755 bp

Locus ID: 284076

UniProt ID: [Q8N841](#)
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]

Product images:



Circular map for RG207279