

Product datasheet for RC207805

TTL (NM_153712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TTL
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC207805 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACACCTTCGTGGTACGCGATGAGAACAGCAGCGTCTACGCCGAGGTCTCCCGGCTGCTCTCGCCA
CCGGCCACTGGAAGAGGCTGCGGCGAGACAACCCAGATTCAACCTGATGCTGGGAGAGAGGAATCGGCT
GCCCTTCGGGAGACTGGGTACGAGCCCGGGCTGGTACAGTTGGTGAATTACTACAGGGGTGCTGACAAA
CTGTGTGCGAAAGCTTCTTTAGTGAAGCTAATCAAGACAAGCCCTGAACTGGCTGAGTCTGCACATGGT
TCCCTGAATCTTATGTGATTTATCCAACCAATCTCAAGACTCCAGTTGCTCCAGCACAGAATGGAATTCA
GCCACCAATCAGTAACCAAGGACAGATGAAAGAGAATCTTTCTCGCTCTTATAACAGAAAGAAAGAG
GATGGAGAGGGCAACGTTTGGATTGCAAAGTCATCAGCCGGTGCCAAAGGTGAAGGCATTCTCATCTCCT
CAGAGGCTTCAGAGCTTCTCGATTTATAGACAACCAAGGGCCAAGTGCACGTGATCCAGAAATATCTTGA
GCACCCTCTGCTGCTTGAAGCCAGGTCATCGCAAGTTTGACATTGGAAGCTGGGTCTTGGTGGATCATCAG
TATAATATCTACCTCTATAGAGAGGGTGTGCTTCGGACTGCTTCAGAACCATATCATGTTGATAATTTCC
AAGACAAAACCTGCCATTTGACCAATCACTGCATTCAAAAAGAGTATTCAAAGAACTACGGGAAGTATGA
AGAAGGAAATGAAATGTTCTTCAAGGAGTTCAATCAGTACCTAACCAAGTCTTTGAACATTACCCTAGAA
AGTAGTATCTTACTACAAATCAAACATATAATAAGGAAGTGCCTCCTGAGCGTGAGGCTGCCATTAGCA
CCAAGCACCTCCCTTACCAGAGCTTCCAGCTCTTCGGCTTTGACTTCATGGTCGATGAGGAGCTGAAGGT
GTGGCTCATTGAGGTCAACGGTGCCCTGTCATGTGCTCAGAAGCTCTATGCAGAAGTGTGCCAAGGCATC
GTGGACATAGCCATTTCCAGTGTCTTCCACCCCCAGATGTGGAGCAACCTCAGACCCAGCCAGCTGCCT
TCATCAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATACGACGATAAGGTTTAA



Protein Sequence:

>RC207805 protein sequence
 Red=Cloning site Green=Tags(s)

MYTFVVRDENSSVYAEVSRLLLATGHWKRLRRDNPRFNLMLGERNLPFGRLGHEPGLVQLVNYRQADK
 LCRKASLVKLIKTSPELAESCTWFPESYVIYPTNLKTPVAPAQNGIQPPISNSRTDEREFFLASYNRKKE
 DGEGNVWIAKSSAGAKGEGILISSEASELLDFIDNQGQVHVIQKYLEHPLLEPGHRKFDIRSWVLVDHQ
 YNIYLYREGVLRASEPYHVDNFQDKTCHLTNHCIQKEYSKNYGKYEEGNEMFFKEFNQYLTSALNITLE
 SSILLQIKHIIRNCLLSVEPAISTKHLPYQSFQLFGDFMVDEELKVWLVIEVNGAPACAQKLYAELCQGI
 VDIAISSVFPPPDVEQPQTQPAAFIKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

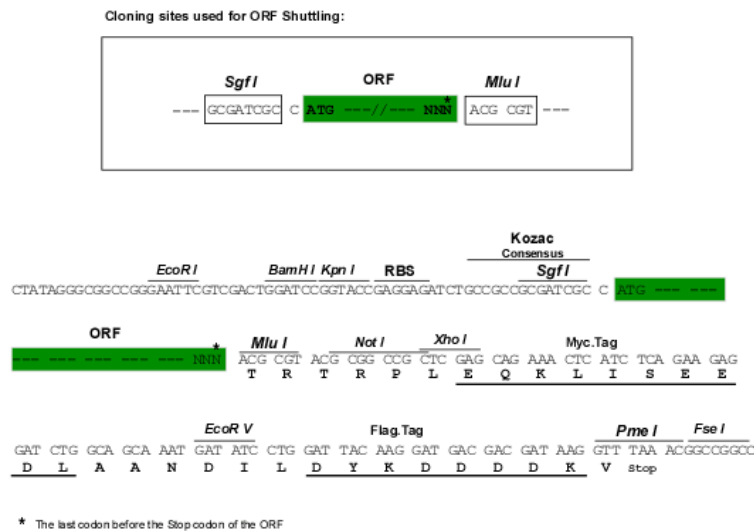
Chromatograms:

https://cdn.origene.com/chromatograms/mk6136_a08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_153712

ORF Size:

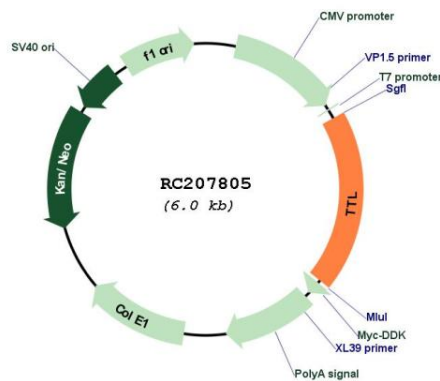
1131 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_153712.2
RefSeq Size:	5181 bp
RefSeq ORF:	1134 bp
Locus ID:	150465
UniProt ID:	Q8NG68
Cytogenetics:	2q14.1
Domains:	TTL
MW:	43.2 kDa

Gene Summary:

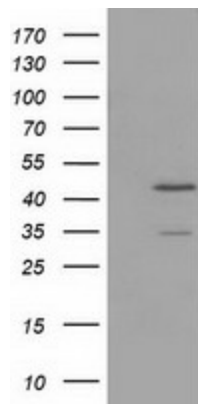
TTL is a cytosolic enzyme involved in the posttranslational modification of alpha-tubulin (see MIM 602529). Alpha-tubulin within assembled microtubules is dephosphorylated over time at the C terminus. After microtubule disassembly, TTL restores the tyrosine residues and consequently participates in a cycle of tubulin dephosphorylation and phosphorylation (Erck et al., 2003 [PubMed 14571137]).[supplied by OMIM, Mar 2008]

Product images:

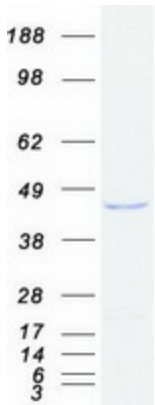


Circular map for RC207805

Western validation with an anti-DDK antibody
* L: Control HEK293 lysate R: Over-expression lysate



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TTL (Cat# RC207805, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TTL (Cat# [TA502027]). Positive lysates [LY403517] (100ug) and [LC403517] (20ug) can be purchased separately from OriGene.



Coomassie blue staining of purified TTL protein (Cat# [TP307805]). The protein was produced from HEK293T cells transfected with TTL cDNA clone (Cat# RC207805) using MegaTran 2.0 (Cat# [TT210002]).