

Product datasheet for **RG207805**

TTL (NM_153712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TTL
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207805 representing NM_153712
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTACACCTTCGTGGTACGCGATGAGAACAGCAGCGTCTACGCCGAGGTCTCCCGGCTGCTCTCGCCA
CCGGCCACTGGAAGAGGCTGCGGCGAGACAACCCAGATTCAACCTGATGCTGGGAGAGAGGAATCGGCT
GCCCTTCGGGAGACTGGGTACGAGCCCGGCTGGTACAGTTGGTGAATTACTACAGGGGTGCTGACAAA
CTGTGTGCGAAAGCTTCTTTAGTGAAGCTAATCAAGACAAGCCCTGAACTGGCTGAGTCTGCACATGGT
TCCCTGAATCTTATGTGATTTATCCAACCAATCTCAAGACTCCAGTTGCTCCAGCACAGAATGGAATTCA
GCCACCAATCAGTAACCAAGGACAGATGAAAGAGAATCTTTCTCGCTCTTATAACAGAAAGAAAGAG
GATGGAGAGGGCAACGTTTGGATTGCAAAAGTCATCAGCCGGTGCCAAAGGTGAAGGCATTCTCATCTCCT
CAGAGGCTTCAGAGCTTCTCGATTTATAGACAACAGGGCCAAGTGCACGTGATCCAGAAATATCTTGA
GCACCCTCTGCTGCTTGAAGCCAGGTCATCGCAAGTTTGACATTGGAAGCTGGGTCTTGGTGGATCATCAG
TATAATATCTACCTCTATAGAGAGGGTGTGCTTCGGACTGCTTCAGAACCATATCATGTTGATAATTTCC
AAGACAAAACCTGCCATTTGACCAATCACTGCATTCAAAAAGAGTATTCAAAGAACTACGGGAAGTATGA
AGAAGGAAATGAAATGTTCTTCAAGGAGTTCAATCAGTACCTAACAAGTGCTTTGAACATTACCCTAGAA
AGTAGTATCTTACTACAAATCAAACATATAATAAGGAAGTGCCTCTGAGCGTGAGGCTGCCATTAGCA
CCAAGCACCTCCCTTACCAGAGCTTCCAGCTCTTCGGCTTTGACTTCATGGTCGATGAGGAGCTGAAGGT
GTGGCTCATTGAGGTCAACGGTGCCCTGTCATGTGCTCAGAAGCTCTATGCAGAAGTGTGCCAAGGCATC
GTGGACATAGCCATTTCCAGTGTCTTCCACCCCCAGATGTGGAGCAACCTCAGACCCAGCCAGCTGCCT
TCATCAAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG207805 representing NM_153712
Red=Cloning site Green=Tags(s)

MYTFVVRDENSSVYAEVSRLLLATGHWKRLRRDNPRFNLMLGERNLPFGRLGHEPGLVQLVNYRGADK
LCRKASLVKLIKTSPELAESCTWFPESYVIYPTNLKTPVAPAQNGIQPPISNSRTDEREFFLASYNRKKE
DGEGNVWIAKSSAGAKGEGILISSEASELLDFIDNQGQVHVIQKYLEHPLLEPGHRKFDIRSWLVLDHQ
YNIYLYREGVLRASEPYHVDNFQDKTCHLTNHCIQKEYSKNYGKYEENEMFFKEFNQYLTSALENTLE
SSILLQIKHIIRNCLLSVEPAISTKHLPYQSFQLFGDFMVDEELKVWLVIEVNGAPACAQKLYAELCQGI
VDIAISSVFPPPDVEQPQTQPAAFIKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153712

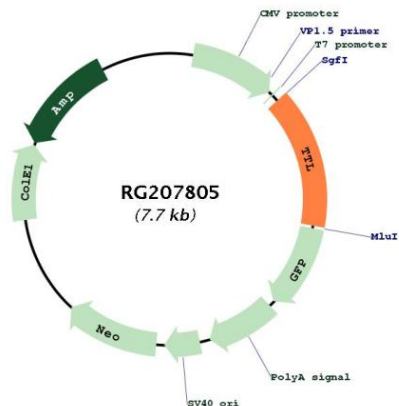
ORF Size: 1131 bp

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

Product images:



Circular map for RG207805