

Product datasheet for **RG204767**

TTDN1 (MPLKIP) (NM_138701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TTDN1
Synonyms:	ABHS; C7orf11; ORF20; TTD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204767 representing NM_138701
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCGACAGAATTTTCGGCCCCAACTCCTCCTTACCCTGGTCCGGGTGGAGGAGGTTGGGGTAGCG
GAAGCAGCTTCCGGGGAACCCCGGGCGGGGGCGGACCACGGCCGCCCTCCCTCGAGACGGGTACGGGAG
TCCGCACACACGCCCGCTACGGGCCCCGGTCTAGGCCGTACGGGAGCAGTCACTCTCCGCGACACGGC
GGCAGCTTCCCGGGGGCGGTTCCGGTCTCCGTCCCTGGCGCTACCCTGGCTCCTACTCCAGGTCCC
CCGCGGGGTCCCAGCAGCAATTCGGCTACTCCCAGGGCAGCAGCAGACCCACCCCAAGGTTCTCCAAG
GACATCTACACCATTTGGATCAGGGCGTGTAGAGAAAAAGAATGTCTAATGAGTTGAAAAATTATTC
AAGCCTTCAATGCTTGAAGATCCTTGGGCTGGCCTAGAACCAGTATCTGTAGTGGATATAAGCCAACAAT
ACAGCAATACTCAAACATTCACAGGCAAAAAGGAAGATACTTTTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204767 representing NM_138701
Red=Cloning site Green=Tags(s)

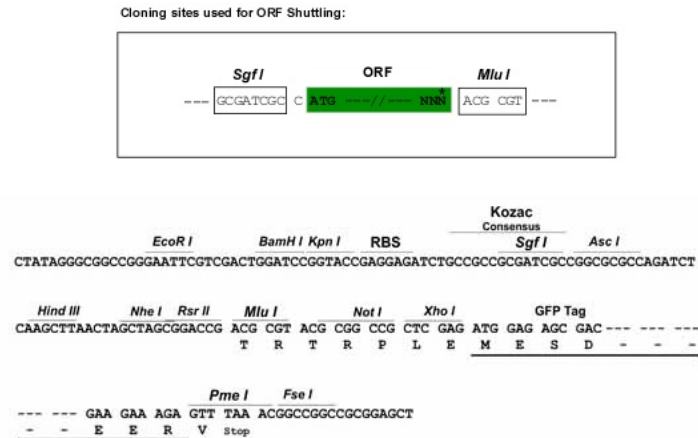
MQRQNFPPPTPPYPGPGGGWGSSSFRGTPGGGPRPPSPRDGYGSPHHTPPYGPRSRPYGSSHSRPHG
GSFPGGRFGSPSPGGYPGSYSRSPAGSQQFGYSPGQQQTHPQGSPTSTPFGSGRVREKRMSNELENYF
KPSMLEDPWAGLEPVSVVDISQQYSNTQTFTGKKGRYFC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_138701

ORF Size: 537 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.

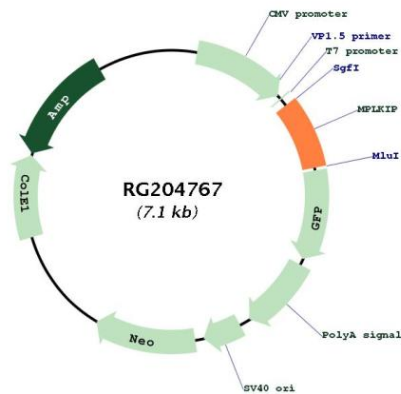
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_138701.4](#)

RefSeq Size: 1084 bp
RefSeq ORF: 540 bp
Locus ID: 136647
UniProt ID: Q8TAP9
Cytogenetics: 7p14.1

Gene Summary: The protein encoded by this gene localizes to the centrosome during mitosis and to the midbody during cytokinesis. The protein is phosphorylated by cyclin-dependent kinase 1 during mitosis and subsequently interacts with polo-like kinase 1. The protein is thought to function in regulating mitosis and cytokinesis. Mutations in this gene result in nonphotosensitive trichothiodystrophy. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RG204767