

## Product datasheet for **MG202136**

### Thoc7 (BC054419) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thoc7 (BC054419) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Thoc7
Synonyms:	Nif3l1bp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202136 representing BC054419 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGGAGCCGTGACTGACGACGAAGTTATACGGAACGTCTTCTGATTGATGGAGATGGTGCTGGGGATG  
ATCGGAGAATTAATCTCCTCGTGAAGCTTCATTAAATGGTGCAACTCTGGATCCCAAGAGGAAGGTA  
TAGCCAGTACCAACGCATGCTGAGCACTCTGTCCAGTGTGAATTTCAATGGGCAAAACATTGCTGGTA  
TATGATATGAATCTCAGAGAAATGGAATTTATGAAAAATATACAAAGAAATAGAATGTAGTATTGCTG  
GAGCACATGAAAAAATTGCTGAGTGTAAGCAGATTCTTCAAGCAAAACGAATACGAAAAATCGACA  
AGAATATGACGCTTTGGCCAAATGATCCAGCATCACCCAGATAGGCATGAGACACTGAAGGAGCTAGAG  
GCTCTGGGCAAGAATTAGAGCATCTCTCACATATTAAGAAAGTGTGAAGATAAGCTGGAATTGAGAC  
GGAAACAATTTACGTTCTTCTTAGTACCATCCATGAACCTTCAACAGACATTGGAGAATGATGACAAGCT  
GTCAGAGGTGGATGAAGCTCAAGAAAGCACCATGGAAGCAGACCCTAAGCCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>MG202136 representing BC054419 Red=Cloning site Green=Tags(s)
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MGAVTDDEVIRKRLIDGDGAGDDRRINLLVKSFIKWCNSGSQEEGYSQYQRMSTLSQCEFSMGKTLV  
YDMLREMYEIKYKEIECSIAGAHEKIAECKQILQAKRIRKNRQYDALAKMIQHHPDRHETLKELE  
ALGKEHLHSHIKESVEDKLELRKQFHVLLSTIHELQQTLENDKLSEVDEAQESTMEADPKP

**TRTRPLE** - GFP Tag - V

Restriction Sites:	SgfI-MluI
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## Cloning Scheme:



ACCN: BC054419

ORF Size: 612 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: [BC054419](#), [AAH54419](#)

RefSeq Size: 993 bp

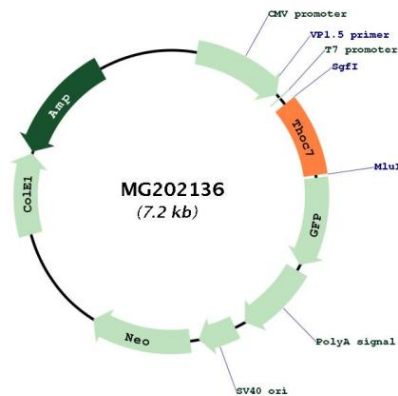
RefSeq ORF: 614 bp

Locus ID: 66231

**Cytogenetics:** 14 A1

**Gene Summary:** Required for efficient export of polyadenylated RNA. Acts as component of the THO subcomplex of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and which specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG202136