

Product datasheet for **MG205327**

Thoc3 (NM_028597) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Thoc3 (NM_028597) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Thoc3
Synonyms: 2410044K02Rik; AL033344
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205327 representing NM_028597
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGCCCGCTGCGGTCTGGGCCCTCGGCCCTCGGCCAGAGCGGCCCGGCTCGATGGCGCCCT
GGTGCTCAGTGAGCAGTGGCCGCTCTCGTTACGTGCTCGGGATGCAGGAGCTCTCCGAGGCCACAGCAA
GACGCGGAATCCCGGCGCACAGTGTAAAGTGCCTCGGCTGGAGCTGCGATGGCCGTCGCTTG
GCCTCGGGTCTTCGACAAGACTGCCAGCGTGTCTTGTGGAGAAGGACCGGCTGGTCAAAGAAAACA
ACTACCGGGCCACGGAGATAGTGTGGACCAGCTTTGTTGGCACCAAGCAACCCTGACCTCTTTGTCAC
CGCATCTGGAGATAAAACCATTCGCATCTGGGATGTGAGGACTACAAAATGCATCGCCACTGTGAATACG
AAAGGGGAGAACATTAACATCTGTTGGAGTCCCGACGGGACAGCCATCGCTGTGGCAACAAGGACGACG
TTGTGACTTTTATTGACGCCAAGACACCCGCTCCAAAGCGGAGGAGCAGTTCAAGTTTGAGGTCAATGA
GATCTCATGGAACAACGACAACAACATGTTCTTCTGACCAACGGCAATGGTTGCATCAACATCCTCAGC
TACCCAGAATTGAAGCCTGTGCAGTCCATCAATGCCATCCTTCTAACTGCATCTGTATCAAGTTTGACC
CCATGGGAAATACTTTGCCACAGGAAGTGCAGATGCCTTGGTCAGCCTTTGGGACGTTGACGAGTTAGT
GTGCGTGGGTGCTTTTCCAGACTAGATTGGCCTGTGAGGACCCTCAGTTTTAGCCACGATGGGAAAATG
CTGGCATCGGCTTCGGAGGACCATTTTCATTGATAGCTGAAGTCGAGACAGGAGACAAGCTATGGGAGG
TGCAAGTGTGAGTCCCGACTTTCACTGTGGCTTGGCACCCCAAGAGGCCTCTGCTGGCTTTTGCCTGTGA
TGACAAAGATGGCAAATACGACAGCAGTCGGGAGGCTGGAAGCTGTGAAGCTGTTGGACTTCCAATGAC
TCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205327 representing NM_028597
 Red=Cloning site Green=Tags(s)

MAAPAAVLGPSALGQSGPGSMAPWCSVSSGSPRYVLGMQELFRGHSKTREFPAHSAKVHSAVWSCDGRRL
 ASGSFDKTASVFLLEKDRLVKENNYRGHGDSVDQLCWHPSNPDLFVTASGDKTIRIWDVRTTKCIATVNT
 KGENINICWSPDGTIAVGNKDDVTFIDAKTHRSKAAEQFKFEVNEISWNNNDNMFFLTNGNGCINILS
 YPELKPVSINAHPSNCICIKFDPMGKYFATGSADALVSLWDVDELVCVRCFSRLDWPVRTLSFSHDGKM
 LASASEDHFIDIAEVETGDKLWEVQCESPTFTVAWHPKRPLLAFCDDKDGKYDSSREAGTVKLFGLPND
 S

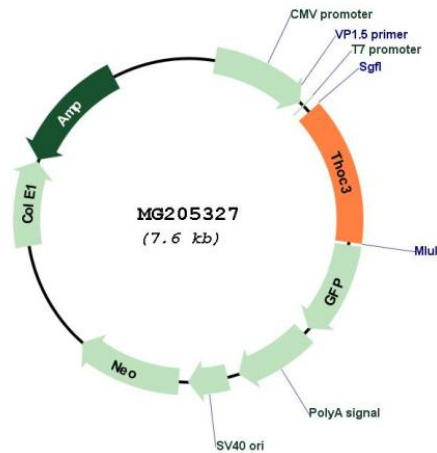
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028597

ORF Size:	1053 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:	<ol style="list-style-type: none">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.
RefSeq:	NM_028597.3
RefSeq Size:	1625 bp
RefSeq ORF:	1056 bp
Locus ID:	73666
UniProt ID:	Q8VE80
Cytogenetics:	13 B1
Gene Summary:	Required for efficient export of polyadenylated RNA and spliced mRNA. 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 (By similarity). [UniProtKB/Swiss-Prot Function]