

Product datasheet for **RG201698**

THOC3 (NM_032361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THOC3 (NM_032361) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	THOC3
Synonyms:	hTREX45; THO3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201698 representing NM_032361 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTCCCCGCTGCAGCCATGGGGCCCTCGGCGTTGGGCCAGAGCGGCCCGGCTCGATGGCCCCGT
GGTGCTCAGTGAGCAGCGGCCCGCTCGCGCTACGTGCTTGGGATGCAGGAGCTGTTCCGGGGCCACAGCAA
GACGCGGAGTTCCTGGCGCACAGCGCCAAGGTGCACTCGGTGGCCTGGAGTTGCGACGGGCGTCGCCTA
GCCTCGGGGTCTTCGACAAGACGGCCAGCGTCTTCTTGCTGGAGAAGGACCGGTTGGTCAAAGAAAACA
ATTATCGGGGACATGGGGATAGTGTGGACCAGCTTTGTTGGCATCCAAGTAATCCTGACCTATTTGTTAC
GGCGTCTGGAGATAAAACCATTCGCATCTGGGATGTGAGGACTACAAAATGCATTGCCACTGTGAACACT
AAAGGGGAGAACATTAATATCTGCTGGAGTCTGATGGGCAGACCATTGCTGTAGGCAACAAGGATGATG
TGGTGACCTTTATTGATGCCAAGACACCCGTTCCAAAGCAGAAGAGCAGTTCAAGTTCGAGGTCAACGA
AATCTCCTGGAACAATGACAATAATATGTTCTTCTGACAAATGGCAATGGTGTATCAACATCCTCAGC
TACCCAGAAGTGAAGCCTGTGCAGTCCATCAACGCCATCCTTCCAAGTGCATCTGTATCAAGTTTGACC
CCATGGGAAGTACTTTGCCACAGGAAGTGCAGATGCTTTGGTCAGCCTCTGGGATGTGGATGAGTTAGT
GTGTGTTTCGGTGCTTTTCCAGGCTGGATTGGCCTGTAAGAACCCTCAGTTTCAGCCATGATGGGAAAATG
CTGGCGTCAGCATCGGAAGATCATTTTATTGACATTGCTGAAGTGGAGACAGGGGACAAACTATGGGAGG
TACAGTGTGAGTCTCCGACCTTACAGTGGCGTGGCACCCCAAAAGGCCTCTGCTGGCATTGCGCTGTGA
TGACAAAGACGGCAAATATGACAGCAGCCGGAAGCCGGAAGTGTGAAGCTGTTGGGCTTCTAATGAT
TCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201698 representing NM_032361
 Red=Cloning site Green=Tags(s)

MAVPAAMGPSALGQSGPGSMAPWCSVSSGSPRYVLGMQELFRGHSKTREFLAHSAKVHSAVWSCDGRRL
 ASGSFDKTASVFLLEKDRLVKENNYRGHGDSVDQLCWHPSPDLFVTASGDKTIRIWDVRTTKCIATVNT
 KGENINICWSPDQGTIAVGNKDDVVTFFIDAKTHRSKAEQFKFEVNEISWNNNDNMFFLTNGNGCINILS
 YPELKPVQSINAHPSNCICIKFDPMGKYFATGSADALVSLWDVDELVCVRCFSRLDWPVRTLSFSDHGKM
 LASASEDFHIDIAEVETGDKLWEVQCESPTFTVAWHPKRPLLAFCDDKDGKYDSSREAGTVKLFGLPND
 S

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032361

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:

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_032361.1](#), [NP_115737.1](#)

RefSeq Size: 1577 bp

RefSeq ORF: 1056 bp

Locus ID: 84321

UniProt ID: [Q96J01](#)

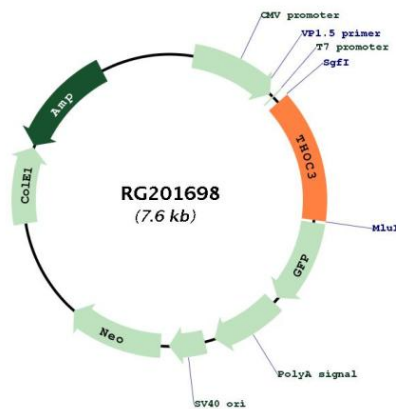
Cytogenetics: 5q35.2

Domains: WD40

Protein Pathways: Spliceosome

Gene Summary: This gene encodes a component of the nuclear THO transcription elongation complex, which is part of the larger transcription export (TREX) complex that couples messenger RNA processing and export. In humans, the transcription export complex is recruited to the 5'-end of messenger RNAs in a splicing- and cap-dependent manner. Studies of a related complex in mouse suggest that the metazoan transcription export complex is involved in cell differentiation and development. A pseudogene of this gene has been defined on chromosome 5. [provided by RefSeq, May 2013]

Product images:



Circular map for RG201698