

## Product datasheet for **SC323789**

### THOC3 (NM\_032361) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	THOC3 (NM_032361) Human Untagged Clone
Tag:	Tag Free
Symbol:	THOC3
Synonyms:	hTREX45; THO3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_032361.1  
 GCGGCGCCAGGACTGACTGCGCCGTGGAGGCTGCTGCAGTGTGTGAGTTGGAAGCTGGG  
 GAGCTCGGCATGGCGGTCCCCGCTGCAGCCATGGGGCCCTCGGCGTTGGGCCAGAGCGGC  
 CCCGGCTCGATGGCCCGTGGTCTCAGTGAGCAGCGGCCGTCGCGCTACGTGCTTGGG  
 ATGCAGGAGCTGTTCCGGGGCCACAGCAAGACGCGCGAGTTCCTGGCGCACAGCGCCAAG  
 GTGCACTCGGTGGCCTGGAGTTGCGACGGGCGTCGCCTAGCCTCGGGTCTTCGACAAG  
 ACGGCCAGCGTCTTCTTGCTGGAGAAGGACCGGTTGGTCAAAGAAAACAATTATCGGGGA  
 CATGGGGATAGTGTGGACCAGCTTTGTTGGCATCCAAGTAATCCTGACCTATTTGTTACG  
 GCGTCTGGAGATAAAACCATTTCGCATCTGGGATGTGAGGACTACAAAATGCATTGCCACT  
 GTGAACACTAAAGGGGAGAACATTAATATCTGCTGGAGTCTGATGGGCAGACCATTGCT  
 GTAGGCAACAAGGATGATGTGGTACCTTTATTGATGCCAAGACACACCGTTCCAAAGCA  
 GAAGAGCAGTTCAAGTTCGAGGTCAACGAAATCTCCTGGAACAATGACAATAATATGTTT  
 TTCCTGACAAATGGCAATGGTTGTATCAACATCCTCAGCTACCCAGAAGTGAAGCCTGTG  
 CAGTCCATCAACGCCCATCCTTCCAAGTGCATCTGTATCAAGTTTGACCCCATGGGGAAG  
 TACTTTGCCACAGGAAGTGCAGATGCTTTGGTCAGCCTCTGGGATGTGGATGAGTTAGTG  
 TGTGTTCCGTGCTTTTCCAGGCTGGATTGGCCTGTAAGAACCCTCAGTTTCAGCCATGAT  
 GGGAAAATGCTGGCGTACGATCGGAAGATCATTTTATTGACATTGCTGAAGTGGAGACA  
 GGGGACAAACTATGGGAGGTACAGTGTGAGTCTCCGACCTTACAGTGGCGTGGCACCCC  
 AAAAGGCTCTGCTGGCATTGCTGTGATGACAAAGACGGCAAAATGACAGCAGCCGG  
 GAAGCCGGAAGTGAAGCTGTTGGGCTTCTAATGATTCTTGAGAGGAGGTTGTAGGG  
 AGAGGAGGCCCGGCAGAGGTCTTCTTCATGTGGTTAGTTTGGTCTGTTCTCTCGGAGT  
 TGGTGGGCACCCTAAATATTTGTAAGTTGGTATAAATTGTAACGTCCTGGTCAGGCTG  
 CGCATTTTCGTTCTTTGCTTTGCTGTATTAGCTCTTCCATTCTTTGCCCCAGCAT  
 GAGTTAACTCGCGTGGACTCTGCAGTGGAGTAGTGACCCAGCATACCTTGTCCCTGCG  
 ACCTCCTGCTTCTCTGCTTCTGGGTGCATGGTAGACTTTGTGGCATTGATACAATTG  
 GACAATACCTAGTTTGGAGGGAGGGGAATGGAAGGCATGGAAGTTTTTTTAAATAATTA  
 AAAATATACATATAATTTTGAGAATTGAGCATTTAATAAACTGACTTTTGTATTATG  
 GAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_032361

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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]