

# Product datasheet for RC209500

# THOC7 (NM\_025075) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	THOC7 (NM_025075) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	THOC7
Synonyms:	fSAP24; hTREX30; NIF3L1BP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC209500 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGAGCCGTGACTGACGACGAAGTTATACGGAAGCGTCTCCTCATTGATGGAGATGGTGCTGGAGATG ATCGGAGAATTAATCTGCTAGTGAAGAGTTTCATTAAATGGTGCAACTCTGGGTCCCAGGAAGAGGGATA TAGCCAGTACCAACGTATGCTGAGCACGCTGTCTCAATGTGAATTTTCAATGGGCAAAACTTTACTAGTA TATGATATGA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC209500 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MGAVTDDEVIRKRLLIDGDGAGDDRRINLLVKSFIKWCNSGSQEEGYSQYQRMLSTLSQCEFSMGKTLLV YDMNLREMENYEKIYKEIECSIAGAHEKIAECKKQILQAKRIRKNRQEYDALAKVIQHHPDRHETLKELE ALGKELEHLSHIKESVEDKLELRRKQFHVLLSTIHELQQTLENDEKLSEVEEAQEASMETDPKP
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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	THOC7 (NM_025075) Human Tagged ORF Clone – RC209500
RefSeq ORF:	615 bp
Locus ID:	80145
UniProt ID:	<u>Q6I9Y2</u>
Cytogenetics:	3p14.1
MW:	23.7 kDa
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 RC209500



Western blot validation of overexpression lysate (Cat# [LY410901]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209500 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified THOC7 protein (Cat# [TP309500]). The protein was produced from HEK293T cells transfected with THOC7 cDNA clone (Cat# RC209500) using MegaTran 2.0 (Cat# [TT210002]).

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