

## Product datasheet for RC214245

### THAP7 (NM\_030573) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	THAP7 (NM_030573) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	THAP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214245 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGCGTCACTGCTCCGCCGCCGGCTGCTGCACACGGGACACGCGGAGACGCGCAACCGCGGCATCT  
CCTTCCACAGACTTCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAACTGCCAGCGGCTGGA  
CCCCAGCGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACACTTTGAGGAG  
GACTGCTTTGAGCTGGTGGGAATCAGTGGATATCACAGGCTAAAGGAGGGGGCAGTCCCCACCATATTTG  
AGTCTTTCTCAAGTTGCGCCGACAACCAAGACAAAGGACACAGTTACCCACCTGGCCCCCTGAAGT  
CAGCCGGCTCAGACGATGCAGGAAGCGCTGCTCCGAGGGCCGAGGGCCCACTCCATTTTCTCCACCT  
CCACCTGCTGATGTACCTGCTTTCCTGTGGAAGAGGCCCTCAGCACCTGCCACTTTGCCGGCCTCCCCAG  
CTGGGAGGCTGGAGCCTGGCCTTAGCAGCCCTTTTCCAGACCTACTGGGCCCTTGGGTGCCAGGCAGA  
TGAAGCAGGCTGCAGCGCCAGCCTTACCAGAGCGGCAGCCCTCCCCTCTCGAACCACGGCCAGTCTCC  
CCCTCAGCGTATATGCTGCGCCTGCCCCACCCCGGAGCCTACATCCAGAATGAACACAGTACCAGG  
TGGGCAGCGCCTTACTCTGGAAGCGGCGAGCCGAGGCAGCCCTTGATGCCCTTGACAAGGCCAGCGCCA  
GCTGCAGGCTGCAAGCGGGGAGCAGCGGCTCGGTTGAGACTGACCAAGCTGCAGCAGGAGCGGGCA  
CGGGAGAAGCGGCACAGGCAGATGCCCGCCAGACTCTGAAGGAGCATGTGCAGGACTTTGCCATGCAG  
TGAGCAGCAGCATGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC214245 protein sequence  
Red=Cloning site Green=Tags(s)

MPRHCSAAGCCTRDTRNTRNGISFHRLPKKDNPRRGLWLANCQRLDPSGQGLWDPASEYIYFCSKHFEEDCFELVGISGYHRLKEGAVPTIFESFSKLRRTTKTKGHSYPPGPPEVSRLRRCRKRCEGRGPTTPFSPPADVTCFPVEEASAPATLPASPAGRLEPGLSSPFDLLGPLGAQADEAGCSAQPSPERQPSPLEPRPVS PSAYMLRLPPPAGAYIQNEHSYQVGSALLWKRRAEALDALDKAQRQLQACKRREQRLRLRLTKLQQERA REKRAQADARQTLKEHVQDFAMQLSSSMA

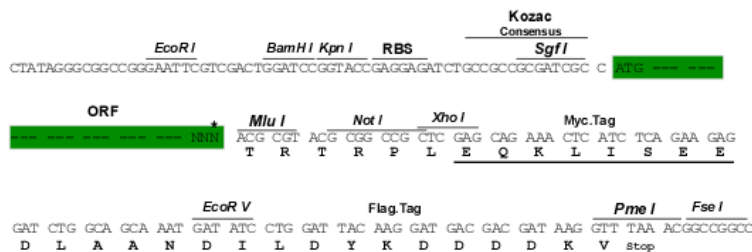
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6404\\_b01.zip](https://cdn.origene.com/chromatograms/mk6404_b01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_030573

**ORF Size:** 927 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\\_030573.1](#)

**RefSeq Size:** 1271 bp

**RefSeq ORF:** 930 bp

**Locus ID:** 80764

**UniProt ID:** [Q9BT49](#)

**Cytogenetics:** 22q11.21

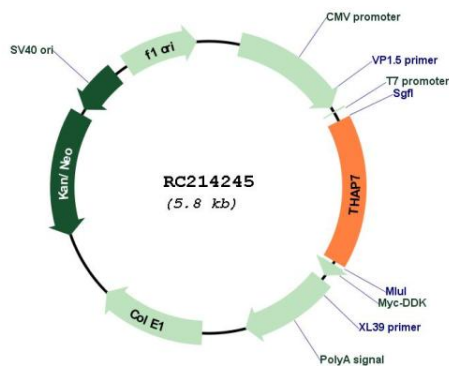
**Domains:** DM3

**Protein Families:** Transcription Factors

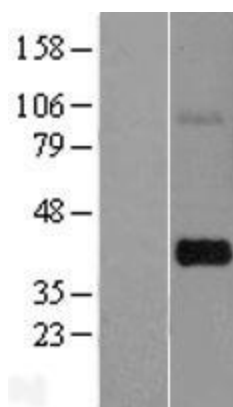
**MW:** 34.4 kDa

**Gene Summary:** Chromatin-associated, histone tail-binding protein that represses transcription via recruitment of HDAC3 and nuclear hormone receptor corepressors.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC214245



Western blot validation of overexpression lysate (Cat# [LY423347]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC214302] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).