

Product datasheet for **RN213946**

Thrap3 (NM_001009693) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thrap3 (NM_001009693) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Thrap3
Synonyms:	MGC94882
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213946 representing NM_001009693
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAAAAACAACAATCCAAGTCTGGTCTCGCTCTTCTCGGTCAAGATCAGCATCCAGATCTCGGT
 CTGTTCTGTTTTCAAAGTCTCGATCCCGAAGCCGATCTGTCTCTGTTCAAGGAAGCGCAGGCTGAGTTC
 TAGGTCTCGTTCAGATCATACTCTCCAGCTCATAACAGAGAAAAGGAATCACCCAGAGTATATCAGAAT
 CGAGATTTCCGAGGTCAACAAGAGGCTACAGAAGGCCCTATTACTTCCGTGGACGAAACCGAGGCTTTT
 ATCCATGGGGCCAGTATAACCGAGGTGGCTATGGAATTACCGTTCTAATTGGCAGAACTACCGCAAGC
 ATACAGCCCTCGTCGGGGCCGATCCCGATCTCGGTCCCCAAGAGAAGGTCCCCTTACCAAGGTCCAGG
 AGCCATTTAGGAACTCGGATAAGTCATCTCTGACAGGTCAAGACGTTCTTCGCTCCCGGTCTGCTCT
 CCAACCACAGCAGAGTTGAATCATCTAACGAAAGTCTACAAAAGAGAAAAAGTCTCTTCCAAGGATAG
 CCGGCCATCTCAGGCAGCTGGTATAACCAGGGAGATGAGGCTAAGGAGCAGACATTTTCTGGAGGCACC
 TCTCAAGATATAAAAGGGTCTGAGAGCTCAAAGCCATGGCCAGATGCTACCACCTATGGCACTGGTCTG
 CATCACGGGCTCGGTTTCTGATCTGAGTCCCCGGGAGAGAAGCCAGCTCTCAAAGCCCCCTCCAGTC
 TGTGGTGGTTAGGCGAAGGTCAACACGCCCTAGCCCTGTGCCAAACCTAGTCTCTCTTTCTAATGCA
 TCCCAGATGGGCTCATCTATGTCAGGCGGTGCTGGATATCAGTCTGGAGCACACCAAGGTCCGTTTGACC
 ATGGCTCTGGGTCTTTGAGTCCATCCAAAAAGAGCCCTGTGGGTAAAGTCCACCAGCCACTGGCTCTGC
 ATATGGTTCATCTCAGAAAGAGGAGAGCGCTGCTTCGGGAGGAGCAGCCTACACAAAAGGTATCTGGAA
 GAGCAGAAGACGGAGAATGGGAAGGATAAGGAGCAGAAACAACAATACTGATAAAGAGAAGCTGAAGG
 AGAAAGGGGGCTTCTCTGATGCTGATGTCAAAATGAAATCTGATCCATTTGCTCCCAAGCGGACACTGA
 GAAGCCCTTCCGAGGCAGCCAGTCAACCAAAAGTATAAGCTCCGGGATGACTTTGAGAAAAAGATGGCT
 GACTTCCACAAGGAGGAGATGGATGAACAAGATAAGGACAAATGTAAAGGAAGGAAGGAACCTGAGTTTG
 ATGATGAGCCAAATTTATCTAAAGTCATAGCCGGTGAAGCAAAAACCAGGAGGAAGAGAAGTCAGG
 CAAGTGGGAGAGCCTGCATGCAGGGAAGGAAAAGCAGAGGAAAGCAGAGGAGCTGGAGGAGGAGCCTTTC
 ACAGAGAGATCCCGAAAGGAGGAACGTGGAGGGTCCAAGAGGAGCGAAAGTGGGCACAGGGGCTTTGTGC
 CAGAAAAGAAATTCGGGTGACTGCATAAAGCCGGTCCAGGAGAAAAGTTCATCGCTCCCCAAGGAA
 GACCTCTGAGAGCCGTGACAAGCTGGGAAACAAGGAGACTTTTCTCAGGGAAGTCTTCTTTTCCATT
 ACTCGGGAGGCCAGGTCAATGTCCGGATGGACTCCTTCGATGAGGACCTTGACGACCCAGTGGCTTAT
 TGGCTCAGGAACGAAAGCTTTGTCCGGATCTAGTCCATAGCAACAAAAGGAGCAGGAATCCGTTCCAT
 TTTCCAGCACATACAGTCAGCTCAGTCGCAGCGTAGCCCTCAGAATTGTTTGCCAGCACATAGTGACC
 ATTGTTATCATGTTAAAGAGCATCACTTTGGATCCTCTGGAATGACATTGCATGAGCGCTTTACTAAAT
 ACCTAAAGAGAGGGGAATGAACAAGAAGCAGCTAAAACCTAAGAAAAGCCAGAGATACACAGGAGGATAGA
 CATTTCCCCCAGTACATTCAGAAAGCATGGTTTGACTCATGAGGAATTGAAAAGTCCACGGGAACCTGGC
 TACAAGGCTGAAGGAAAGTACAAGATGATCCTGTTGATCTTCGCCTTGATATTGAACGCCGTAAAAAAC
 AAAGGAGAGAGATCTTAAGCGAGGTAATCAAGAGAGTCGGTGGATTCCAGAGACTCTAGCCACTCAAG
 AGAAAGATCAACTGAAAAGACAGAGAAAACCCACAAGGATCAAAGAAGCAGAAGAAGCACCAGAGCA
 AGAGACCCGTCTAGGTCCTCCTCGTCTCTTCCAGTCATCTCACTCTACAAAGCAGAGGAGTACCCTG
 AGGAAGCAGAGGACAGGGAGGAGACACCACAGGTTTTGACAAATCCAGATTGGGGACAAAAGACTTTGT
 GGGTCCGAATGAAAGAGGCGGCAGAGCTCGGGAACCTTCCAATTTGAGCAAGAGGAGAGGTTGGGGC
 AGAGGAAACTATTCTGGTAACAATAACAACAACAGCAACAATGATTTCCAAAAGAGAAGCCGGGAAGAG
 AATGGGATCCCGAGTACACACCAAGAGCAAGAAGTATTACTTGCATGACGACCCGGAAGGCGAGGGCAG
 CGACAAGTGGATGAGCCGAGGCCCGGCCGAGGAGCCTTCCCCGGGGCGGGCCGGTTTATGTTGAGG
 AAATCCAGTACCAGCCCCAAGTGGGCCATGACAAGTTCAGTGGGAGGAGGGGGAGATTGAAGACGATG
 AGAGTGGGACAGAGAACAGAGAAGAAAAGGACAGTTTACAACCTTCAGCTGAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001009693
Insert Size:	2856 bp
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).
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:	<u>NM_001009693.1</u> , <u>NP_001009693.1</u>
RefSeq Size:	3586 bp
RefSeq ORF:	2856 bp
Locus ID:	313591
UniProt ID:	<u>Q5M7V8</u>
Cytogenetics:	5q36
Gene Summary:	Involved in pre-mRNA splicing. Remains associated with spliced mRNA after splicing which probably involves interactions with the exon junction complex (EJC). Can trigger mRNA decay which seems to be independent of nonsense-mediated decay involving premature stop codons (PTC) recognition. May be involved in nuclear mRNA decay. Involved in regulation of signal-induced alternative splicing. During splicing of PTPRC/CD45 is proposed to sequester phosphorylated SFPQ from PTPRC/CD45 pre-mRNA in resting T-cells. Involved in cyclin-D1/CCND1 mRNA stability probably by acting as component of the SNARP complex which associates with both the 3'end of the CCND1 gene and its mRNA. Involved in response to DNA damage. Is excluded from DNA damage sites in a manner that parallels transcription inhibition; the function may involve the SNARP complex. Initially thought to play a role in transcriptional coactivation through its association with the TRAP complex; however, it is not regarded as a stable Mediator complex subunit. Cooperatively with HELZ2, enhances the transcriptional activation mediated by PPARG, maybe through the stabilization of the PPARG binding to DNA in presence of ligand. May play a role in the terminal stage of adipocyte differentiation. Plays a role in the positive regulation of the circadian clock. Acts as a coactivator of the CLOCK-ARNTL/BMAL1 heterodimer and promotes its transcriptional activator activity and binding to circadian target genes.[UniProtKB/Swiss-Prot Function]