

## Product datasheet for **MR217609**

### Thrap3 (NM\_146153) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thrap3 (NM_146153) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Thrap3
Synonyms:	9330151F09Rik; B230333E16Rik; Trap150
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR217609 representing NM\_146153  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAAAAACAACAATCCAAGTCTGGGTCTCGCTCTTCTCGCTCAAGATCTGCATCCAGATCTCGGT  
 CTCGTTTCGTTTTCAAAGTCTCGGTCCCAAGCCGATCTGTCTCTCGTTCAAGGAAGCGCAGGCTGAGTTC  
 TAGGTCTCGTTCAGATCATATTCTCCAGCTCATAACAGAGAAAGGAATCACCCAGAGTGATCAGAAT  
 CGAGATTTCCGAGGTATAACAGAGGCTACAGGAGGCCCTATTACTTCCGTGGGCGAAACCAGGCTTTT  
 ATCCATGGGGCCAGTATAACCGAGGTGGCTATGGAACTACCGTTCCAATTGGCAGAACTACCGGCAAGC  
 ATACAGCCCTCGTCGGGGCGTTCGATCCCGGTCCCAAGAGAAAGTCCCCTTACCACGGTCCAGG  
 AGCCATTTAGGAACTCTGACAAGTCATCTCTGACAGGTCAAGACGCTCCTCATCTCCGGTCTGCTCT  
 CCAACCACAGCAGAGTTGAGTCGTCTAAGCGAAAGTCTACAAAAGAGAAAAAGTCTCTTCCAAGGATAG  
 CCGGCCATCTCAGGCAGCTGGTATAACAGGGAGATGAGGCTAAGGAGCAGACATTTCTTGGAGGCACC  
 TCTCAAGATATAAAAGGGTCTGAGAGCTCAAAGCCATGGCCAGATGCCACCACCTATGGCCCGGTTCTG  
 CATCACGGGCTCGGTTTCTGATCTGAGTCCCCGGGAGAGAAGCCAGCTCTCAAAGCCCCCTCCAGTC  
 TGTGGTGGTTAGGCGCAGGTACCACGCCTAGCCCTGTGCCAAAACCCAGTCTCCACTTTCTAATGCG  
 TCCCAGATGGGCTCGTCTATGTCAGGGGTGCTGGGTATCAGTCTGGAGCACACCAAGGCCAGTTCGACC  
 ATGGCTCTGGGTCTTTGAGTCCATCCAAAAGAGCCCTGTGGGTAAAGTCCACCAGCTACTGGCTCTGC  
 ATATGGCTCATCTCAGAAAGAGGAGAGTGTCTTTCGGGAGGGGAGCAGTATTCAAAGGATCTGGAG  
 GAGCAGAAGACTGAGAATGGGAAGGATAAGGAGCAGAAACAACAATGCCGATAAGGAGAAGCTGAAGG  
 AGAAAGGGGCTTCTCTGATGCTGATGTCAAAATGAAATCTGATCCATTTGCTCCCAAGCGGACTGTA  
 GAAGCCCTTCCGAGGCAGCCAGTCGCCAAAAGGTATAAGCTTCGGGATGACTTTGAGAAAAAGATGGCT  
 GACTTCCACAAGGAGGAGCTGGATGAGCACGATAAGGACAAAAGTAAAGGAAGGAAGGAACCCGAGTTTG  
 ATGATGAGCCAAATTTATGTCGAAAGTCATAGCCGGTCAAGCAAAAACCCAGGAGGAAGAGAAGTCAGG  
 CAAGTGGGAGAGCCTGCACACAGGGAAGGAAAAGCAGAGGAAGGCAGAGGAAATGGAGGATGAGCCTTTC  
 ACAGAGAGATCCCGAAAGGAGGAGCGTGGAGGGTCCAAGAGGAGTAAAGTGGGCACAGGGGCTTTGTGC  
 CAGAAAAGAAATTCGGGTGACTGCGTACAAGGCGGTCCAGGAGAAAAGTTCATCGCCGCCCCCAAGGAA  
 GACCTCTGAGAGCCGTGACAAGCTGGGAAGCAAAGGAGACTTTTCTCAGGGAAGTCTTCTTTTCCATT  
 ACCCGGGAGGCCAAGTCAATGTCCGGATGGACTCCTTCGATGAGGACCTTGCACGACCTAGTGGTTTAT  
 TGGCTCAGGAGCGAAAGCTCTGTCCGGATCTAGTCCATAGCAACAAAAGGAGCAGGAGTCCCGTCCAT  
 TTTCCAGCACATACAGTCGGCTCAGTCTCAGCGTAGCCCTCAGAACTGTTTGTCTCAGCACATAGTGACC  
 ATTGTTTATCATGTTAAAGAGCATCACTTTGGATCCTCTGGAATGACATTGCATGAACGCTTTACTAAAT  
 ACCTAAAGAGAGGAAATGAACAAGAAGCAGTAAAAATAAGAAAAGCCCAGAGATACACAGGAGGATAGA  
 CATTTCCCCAGTACATTCAGAAAGCATGGTTTGACTCATGAGGAATTGAAAAGTCCACGGGAACCTGGC  
 TACAAGGCTGAGGGAATAACAAGATGATCCTGTTGATCTTCGCCTTGATATTGAACGTCGTAACAAAC  
 ATAAAGGAGAGAGATCTTAAGCGAGGTAATCAAGAGAGTCAAGTGGATTCCAGAGACTTAGCCACTCAAG  
 AGAAAGATCAACTGAAAAGACAGAGAAAACCCACAAGGATCAAAGAAGCAGAAGAAGCACCAGAGCA  
 AGAGACCGGTCCAGGTCTCTCTCTCTCTCCAGTCCCTCCATTCTCAAAGCAGAGGAGTACCCTG  
 AGGAGGCAGAAGAGAGGGAGGAGACCTCAGGTTTCGACAAATCCAGATTGGGGACCAAGACTTCGT  
 GGGTCCGAATGAAAGAGGCGGCAGAGCTCGGGAACTTTCAATTTCTGCAAGAGGGAGAGGATGGGGC  
 AGAGGAAACTATTCTGGTAACAATAACAACAACAGCAACAATGATTTTCAAAGAGAAAGCCGGGAAGAG  
 AGTGGGATCCAGAGTACACGCCCAAGAGCAAGAAGTATTACTTGCATGACGACCGGGAAGGCGAGGGCAG  
 CGACAAGTGGATGGGCCGAGGCCGAGGCCGAGGAGCCTTCCCGGGGGCGGGCCGTTTATGTTCCGG  
 AAGTCCAGTACCAGCCCCAAGTGGGCCATGACAAGTTCAGTGGGAGGAGGGAGAGATAGAAGACGACG  
 AGAGTGGGACAGAGAACAGAGAAGAGAAGGACAGTTTACAGCCCTCAGCTGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR217609 representing NM\_146153  
 Red=Cloning site Green=Tags(s)

```
MSKTNKSKSGSRSSRSASRSRSRFSKRSRSRSVSRSRKRRLSSRSRSRSPAHNRERNHPRVYQN
RDFRGHNRYRRPYFRGRNRGYPWGQYNRGGYGNYSNWQNYRQAYSRRGRSRSRSPKRRSPSPRSR
SHSRNSDKSSSDRSRRSSSSRSSSNHSRVESKRKSTKEKSSSKDSRPSQAAGDNQGDAAKEQTFSGGT
SQDIKGSSESSKPWPDATTYGAGSASRASVSDLSPRERSPALQSPLQSVVRRRSPRSPVPKPSPLSNA
SQMGSSMSGGAGYQSGAHQGFQDHGSGSLSPSKSPVGKSPPATGSAYGSSQKEESAASGGAAYSKRYLE
EQKTENGDKKEQQTADKEKLEKGGFSDADVMMKSDPFAPKTDSEKPFGRSQSPKRYKLRDDFEKMA
DFHKEELDEHDKDKSKGRKEPEFDDEPKFMSKVIAGASKNQEESKQWESLHTGKEKQRKAEMEDEF
TERSRKEERGSKRSESGHRGFVPEKNFRVTAYKAVQEKSSPPPRKTESRDLGSKGDFSSGKSSFSI
TREAQVNVRMDSFDEDLARPSGLLAQERKLCRDLVHSNKKEQEFRSIFQHIQSAQSQRSPSELFAQHIVT
IVHHVKEHHFGSSGMLTHERFTKYLKRGNEQEAANKKSPEIHRRIDISPSTFRKHGLTHEELKSPREPG
YKAEQKYPVLDRLDIERRKKHKERDLKRGKSRESVDSRSDSSHSRERSTEKTEKTHKGSKKQKHHRA
RDRSRSSSSSSQSSHSYKAEYPEEAEREESTSGFDKSLGKDFVGPNERGGRARGTFQFRARGRWG
RGNYSGNNNNSNDFQKRSREEWDPEYTPKSKYYLHDDREGEESDKWMGRGRGAFPRGRGRFMFR
KSSTSPKWAHDKFSGEEGIEDESSTENREKDSLQPSAE
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9035\\_b09.zip](https://cdn.origene.com/chromatograms/mm9035_b09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

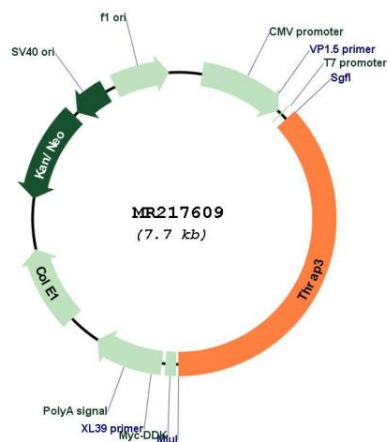
**ACCN:** NM\_146153

**ORF Size:** 2853 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_146153.3</a> , <a href="#">NP_666265.3</a>
<b>RefSeq Size:</b>	4350 bp
<b>RefSeq ORF:</b>	2856 bp
<b>Locus ID:</b>	230753
<b>UniProt ID:</b>	<a href="#">Q569Z6</a>
<b>Cytogenetics:</b>	4 D2.2
<b>MW:</b>	108.6 kDa

**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 SFQ 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 (PubMed:24043798).[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR217609