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Product datasheet for RR213946

Thrap3 (NM_001009693) Rat Tagged ORF Clone

Product data:

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

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ORF Nucleotide Sequence:

>RR213946 representing NM_001009693
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAAAAACAAACAAATCCAAGTCTGGGTCTCGCTCTTCTCGGTCAAGATCAGCATCCAGATCTCGGT
CTCGTTCGTTTTCAAAGTCTCGATCCCGAAGCCGATCTGTCTCTCGTTCAAGGAAGCGCAGGCTGAGTTC
TAGGTCTCGTTCCAGATCATACTCTCCAGCTCATAACAGAGAAAGGAATCACCCCAGAGTATATCAGAAT
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AGAGTGGGACAGAGAACAGAGAAGAAAAGGACAGTTTACAACCTTCAGCTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213946 representing NM_001009693
Red=Cloning site Green=Tags(s)

MSKTNKSKSGSRSSRSRSASRSRSRSFSKSRSRSRSVSRSRKRRLSSRSRSRSYSPAHNRERNHPRVYQN
RDFRGHNRGYRRPYYFRGRNRGFYPWGQYNRGGYGNYRSNWQNYRQAYSPRRGRSRSRSPKRRSPSPRSR
SHSRNSDKSSSDRSRRSSSSRSSSNHSRVESSKRKSTKEKKSSSKDSRPSQAAGDNQGDEAKEQTFSGGT
SQDIKGSESSKPWPDATTYGTGSASRASVSDLSPRERSPALKSPLQSVVVRRRSPRPSPVPKPSPPLSNA
SQMGSSMSGGAGYQSGAHQGPFDHGSGSLSPSKKSPVGKSPPATGSAYGSSQKEESAASGGAAYTKRYLE
EQKTENGKDKEQKQTNTDKEKLKEKGGFSDADVKMKSDPFAPKTDTEKPFRGSQSPKRYKLRDDFEKKMA
DFHKEEMDEQDKDKCKGRKEPEFDDEPKFISKVIAGASKNQEEEKSGKWESLHAGKEKQRKAEELEEEPF
TERSRKEERGGSKRSESGHRGFVPEKNFRVTAYKAVQEKSSSPPPRKTSESRDKLGNKGDFSSGKSSFSI
TREAQVNVRMDSFDEDLARPSGLLAQERKLCRDLVHSNKKEQEFRSIFQHIQSAQSQRSPSELFAQHIVT
IVHHVKEHHFGSSGMTLHERFTKYLKRGNEQEAAKTKKSPEIHRRIDISPSTFRKHGLTHEELKSPREPG
YKAEGKYKDDPVDLRLDIERRKKHKERDLKRGKSRESVDSRDSSHSRERSTEKTEKTHKGSKKQKKHRRA
RDRSRSSSSSSQSSHSYKAEEYPEEAEDREESTTGFDKSRLGTKDFVGPNERGGRARGTFQFRARGRGWG
RGNYSGNNNNNSNNDFQKRSREEEWDPEYTPKSKKYYLHDDREGEGSDKWMSRGRGRGAFPRGRGRFMFR
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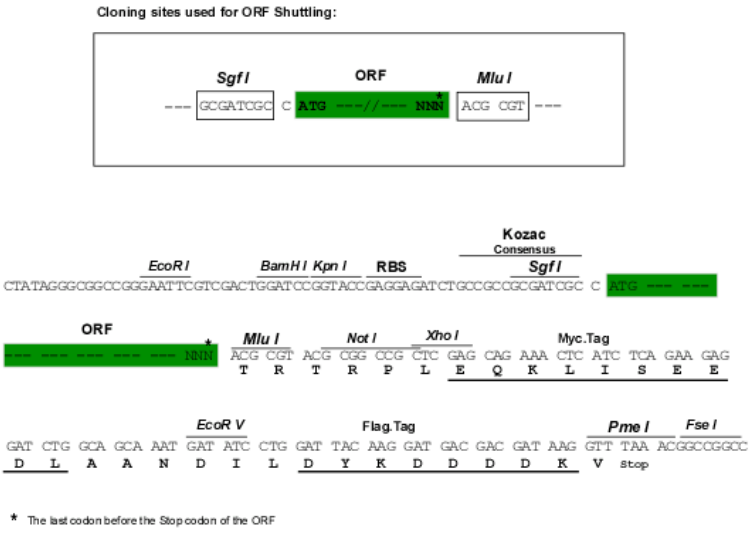
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

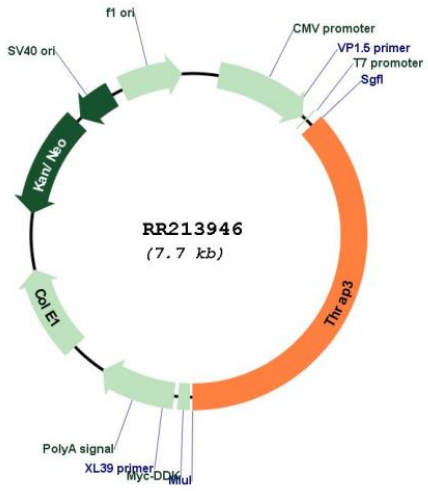
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001009693
ORF Size:	2853 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_001009693.1, NP_001009693.1
RefSeq Size:	3586 bp
RefSeq ORF:	2856 bp
Locus ID:	313591
UniProt ID:	Q5M7V8
Cytogenetics:	5q36

MW: 108.3 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 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 excluced 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]