

Product datasheet for **MR204142**

Thg1l (BC092541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thg1l (BC092541) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Thg1l
Synonyms:	RP23-298M7.6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204142 representing BC092541 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTGGGCTTCCGCACAGCGAGGATCGGCAGTCTTTGGCTGCTACTTCCGTTATTTAAGACGGTGCC
TGAGATTGGGGGTGGCCATGGCCAAGAGCAAGTTTGAGTACGTGCGGAATTTGAGGTTCAGGACACATG
CCTGCCGCACTGCTGGGTGGTGGTGGCTGGACGGCCGGAATTTCCACCGGTTTGCTGAGGAGCACAAC
TTTGCCAAACCTAATGACAGTCGGGCCCTCCATCTGATGACCAAATGTGCCCAGACAGTAATGGAGGAGC
TGGAGGACATTGTGATTGCGTACGGCCAGAGTGACGAGTACAGCTTTGTGTTCAGGAAGAAGAGCAATTG
GTTCAAAAGAAGAGCCAGTAAGTTCATGACTCTCGTGGCCTCCAGTTTGCCTCCAGTTACGTATTTTAC
TGGCGGGATTACTTTGAGGACCAGCCCCCTTCGGTATCCTCCAGGATTTGATGGGAGAGTCGTGTTGTATC
CTAGCAACCAGACTTTGAAGGACTACCTCAGCTGGCGACAGGCAGACTGTCACATCAATAATCTTTATAA
TACAGTTTTCTGGGTCCTTATCCAGCAGTCTGGACTAACACCAAGTCCAAGCCCAGCAGAGATTAAAGGGA
ACTCTGACGGCCGACAAGAATGAGATTCTGTTCTCTGAGTTCCACATCACTACAACAATGAGCCACACA
TGTACAGGAAAGGGACGGTGTGGTGTGGCAAAAGGTGGAAGAAGTCAGAACACAAGAAGTCAGGCTGCC
AGCAGAAATGGAAGGGGAAAAGAAGGCCGTGGCTCGGACCAGAACCAGGTTGGCCTTGAAGTGTGAT
CTTATTGGGGATGCCTTCTGGAAGGAACACCCAGAGATTCTGGCGGAAGAGAAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204142 representing BC092541
 Red=Cloning site Green=Tags(s)

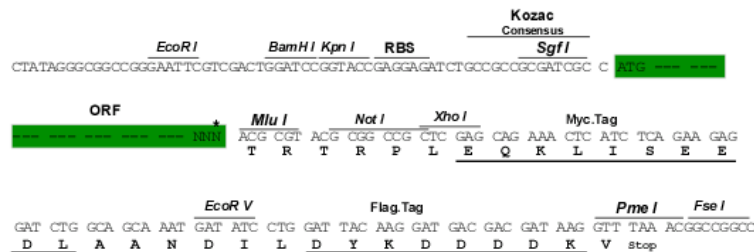
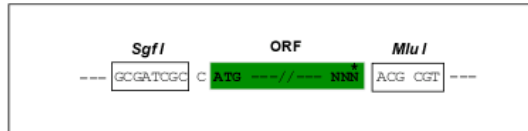
MWAFRTARIGSLLAATSVILRRCLRLGVAMAKSKFEYVRNFEVQDTCLPHCWVVRLDGRNFHRFAEEHN
 FAKPNDSRALHMTKCAQTVMEELEDIVIAYGQSDSEYSFVFRKKSNNWFKRRASKFMTLVASQFASSYVFY
 WRDYFEDQPLRYPPGFDGRVLYPSNQTLKDYL SWRQADCHINNLYNTVFWLIQQSGLTPVQAQQLKG
 TLTADKNEILFSEFHINYNNEPHMYRKGTVLVWQKVEEVRTQEVRLPAEMEGEKKAVARTRTRVVALNCD
 LIGDAFWKEHPEILAEEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC092541

ORF Size: 894 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC092541.1](#)

RefSeq Size: 1309 bp

RefSeq ORF: 896 bp

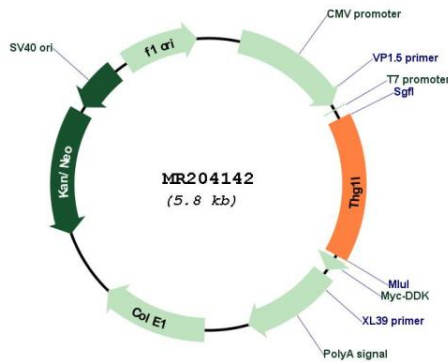
Locus ID: 66628

Cytogenetics: 11 B1.1

MW: 48 kDa

Gene Summary: Adds a GMP to the 5'-end of tRNA(His) after transcription and RNase P cleavage. This step is essential for proper recognition of the tRNA and for the fidelity of protein synthesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204142