

## Product datasheet for **RR204349**

### Tmlhe (NM\_133387) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmlhe (NM_133387) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmlhe
Synonyms:	Tmlh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204349 representing NM_133387 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGTACCATAAGTTGTTGCACCAACAAAGCAGGCTCCAGAATTGATGAAGAGAGGAGACATAGCTC  
ACGGTCTTCGTCTGTCCGGCTTTAAAAGTTTATTTCCATTTTCGCTCCATTGGTGCCATACGGCTTCCAA  
GTCTGTGAATTGTACTTGGCACCAACATGAAGATCATTTGGAGCTGGGGACCAAAACCAGGGCCTTGCCG  
TTGCTAGAACTGCAATATGCCAGCACTGTGATGCGCTTCGATTATGTCTGGCTTCGAGACCACTGCCGCT  
CAGCCTCGTGCTATAATTCTAAGACTCACCAGCGGAGCCTGGACACTGCCAGTGTGGATTATGCATTAA  
GCCAAAGACGATTTCGTCTGGATGAAAGTACACTCTTTTCACTTGGCCAGATGGTCATGTGACTAGATAC  
GACCTGGATTGGCTGGTAAAAACAGCTACGAAGGGCAGAAGCAGGAGGTCATCCAACCCAGGGTGTGT  
GGAACGCCAAGCTCTACCAGGACGCCAGCTCCGTCTGTTGATTTCCAGGGTTTCTTGGAAACAAAGGA  
AGGACTGAAGAAGTTTCTGCAGAACTTTCTGCTCTACGGAATTGCGTTTGTAGAAAATGTCCCTCCCACT  
CAGGAGCACACGAAAAGCTGGCACGAAGGGTCAGCCTAATCAGAGAAACCATTTATGGAAGGATGTGGT  
ATTTACGTCAGACTTTCCAGAGGTGACTGCGTACACCAAGCTAGCCCTAGATCGCCATACCGGATAC  
CACCTACTTTCAAGAGCCCTGTGGCATTCAAGTATTTTCATTGTCTTAAGCACGAAGAACAGGTGGCAGG  
ACACTGTTGGTGGATGGATTCTATGCAGCGCAACAAGTACTCCAAGAGCACCTGAGGAATTTGACCTCC  
TCAGCCAAGTACCATTGAAGCATGAATATATTGAAAATGTTGGACAATGTCACAATCACATGATAGGGGT  
TGGACCCATCTTAAATATCTACCCATGGAATAAGGAGCTGTATTTGATCAGGTACAACAACACGACAGG  
GCTGTCATCAACACTGTGCCTTACGACGTTGTCCGTGTTGGTATGCAGCACACCGAACCCCTAACGACTG  
AACTGAGAAGGCCTGAGAATGAACTTTGGGTCAAACCTGAAGCCTGAAAGGTAATTTATAGACAACCTG  
GCGAGTCTTACGGCAGGGAGTCATTCAGTGGCTACCGTCAACTGTGTGGCTGCTATTTGACTAGAGAT  
GATGTAATGAACTGCTCGAATTCTAGGTCTTCATGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR204349 representing NM\_133387  
 Red=Cloning site Green=Tags(s)

MWYHKLLHQQSRLQNLMKRGDIAHGLRLSGFKSLFPFSLHWCHTASKSVNCTWHQHEDHLELGTKPRALR  
 LLELQYASTVMRFDYVWLRDHCRSASCYNSKTHQRSLDTASVDLCIKPKTIRLDESTLFFTWPDGHVTRY  
 DLDWLKNSYEGQKQEVIQPRVLWNAKLYQDAQLPVDFQGFLETKELKKFLQNFLLYGI AFVENVPT  
 QEHTEKLARRVSLIRETIYGRMWFYTSDFSRGDTAYTKLALDRHTDTTYFQEPGCIQVFHCLKHEGTGGR  
 TLLVDGFYAAQQVLQRAPEEFDLLSQVPLKHEYIENVGQCHNHMIGVGPILNIYPWNKELYLIRYNNYDR  
 AVINTVPYDVVRRWYAAHRTLTTTELRRPENELWVKLKPQKVLFDNWRVHLHGRESFTGYRQLCGCYLTRD  
 DVLN TARILGLHA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

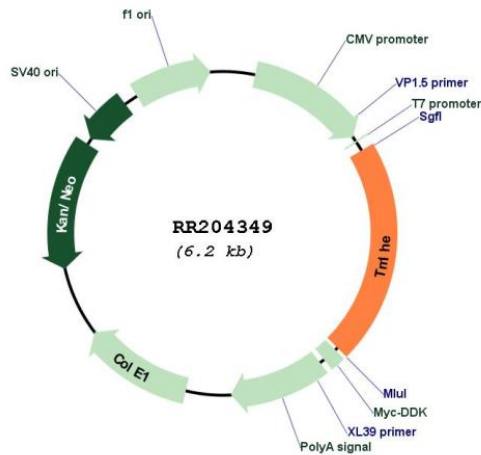
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_133387

<b>ORF Size:</b>	1299 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_133387.2</a> , <a href="#">NP_596878.2</a>
<b>RefSeq Size:</b>	1517 bp
<b>RefSeq ORF:</b>	1302 bp
<b>Locus ID:</b>	170898
<b>UniProt ID:</b>	<a href="#">Q91ZW6</a>
<b>Cytogenetics:</b>	20p12
<b>MW:</b>	50.9 kDa
<b>Gene Summary:</b>	first enzyme in the carnitine biosynthesis pathway; plays an important role in the transport of fatty acids across the inner mitochondrial membrane [RGD, Feb 2006]