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Product datasheet for RC214667

TMLHE (NM_018196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMLHE (NM_018196) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMLHE
Synonyms:	AUTSX6; BBOX2; TMLD; TMLH; TMLHED; XAP130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC214667 representing NM_018196
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGTACCACAGATTGTCCCACCTACACAGCAGGCTTCAGGACTTGCTGAAGGGAGGAGTCATATATC
CGGCCCTTCCACAGCCCAACTTCAAAAGCTTACTTCCTTTAGCTGTCCATTGGCACCATACAGCCTCCAA
GTCTCTGACTTGTGCTTGGCAGCAACATGAAGATCATTTTGAGCTGAAATATGCTAATACCGTGATGCGC
TTTGATTACGTCTGGCTTCGAGACCACTGCCGCTCAGCATCGTGCTACAACTCTAAGACTCACCAGCGCA
GCCTGGATACTGCCAGTGTGGATTTATGTATCAAGCCAAAGACCATTCGTCTGGATGAGACCACACTCTT
TTTCACTTGGCCAGATGGTCATGTGACTAAATATGATTTGAATTGGCTGGTGAAAAACAGCTATGAAGGG
CAGAAACAAAAAGTCATCCAGCCTAGAATACTATGGAATGCTGAAATCTACCAGCAAGCCCAAGTTCCAT
CGGTAGATTGCCAGAGCTTCTTAGAAACCAACGAGGGACTGAAGAAGTTTCTGCAAAACTTTCTGCTCTA
TGGAATTGCATTCGTAGAAAATGTCCCTCCCACTCAAGAGCACACAGAGAAGTTGGCAGAAAGGATCAGC
TTAATCAGAGAAACCATTTATGGGAGGATGTGGTATTTCACTTCAGACTTCTCCAGAGGTGACACTGCGT
ACACCAAGCTAGCTCTGGATCGGCACACTGACACTACCTATTTTCAAGAGCCCTGTGGCATTCAAGTGTT
TCATTGTCTTAAACATGAAGGAACTGGTGGCAGGACACTGCTAGTAGATGGATTCTATGCAGCAGAACAG
GTACTTCAAAAGGCACCTGAGGAATTTGAACTCCTCAGTAAAGTGCCATTGAAGCATGAATATATTGAAG
ATGTTGGAGAATGTCACAACCACATGATTGGGATTGGGCCAGTCTTAAATATCTACCCATGGAATAAAGA
GCTGTATTTGATCAGGTACAACAACTATGACCGGGCTGTCATCAATACCGTTCCTTATGATGTCGTCCAT
CGCTGGTATACAGCACACCGGACTCTAACGATAGAGTTGAGGAGACCTGAGAATGAGTTTTGGGTCAAAC
TAAAGCCTGGCAGGGTCCTATTTATAGACAACTGGCGTGTCCTACATGGCAGGGAATGCTTCACTGGCTA
CCGCCAACTGTGTGGCTGCTATTTAACAAGAGATGATGTATTAAACACTGCTCGCCTCTTGGGGCTTCAG
GCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214667 representing NM_018196
Red=Cloning site Green=Tags(s)

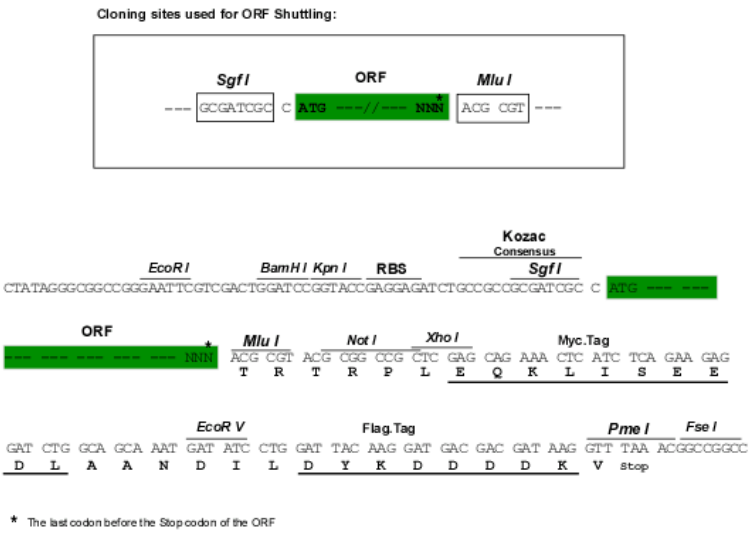
MWYHRLSHLHSRLQDLLKGGVIYPALPQPNFKSLLPLAVHWHHTASKSLTCAWQQHEDHFELKYANTVMR
FDYVWLRDHCRSASCYNSKTHQRSLDTASVDLCIKPKTIRLDETTLFFTWPDGHVTKYDLNWLVKNSYEG
QKQKVIQPRILWNAEIYQQAQVPSVDCQSFLETNEGLKKFLQNFLLYGIAFVENVPPTQEHTEKLAERIS
LIRETIYGRMWYFTSDFSRGDTAYTKLALDRHTDTTYFQEPCGIQVFHCLKHEGTGGRTLLVDGFYAAEQ
VLQKAPEEFELLSKVPLKHEYIEDVGECHNHMIGIGPVLNIYPWNKELYLIRYNNYDRAVINTVPYDVVH
RWYTAHRTLTIELRRPENEFWVKLKPGRVLFIDNWRVLHGRECFTGYRQLCGCYLTRDDVLNTARLLGLQ
A

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8121_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018196

ORF Size: 1263 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_018196.4

RefSeq Size: 3961 bp

RefSeq ORF: 1266 bp

Locus ID: 55217

UniProt ID: Q9NVH6

Cytogenetics: Xq28

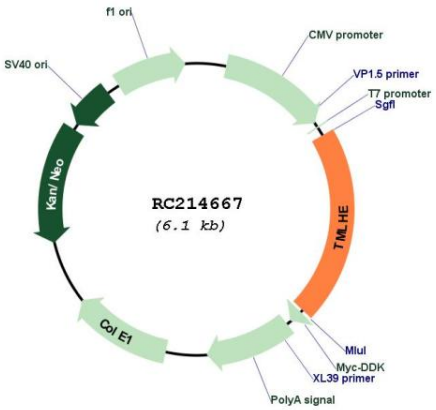
Domains: Gamma-BBH

Protein Pathways: Lysine degradation

MW: 50 kDa

Gene Summary: This gene encodes the protein trimethyllysine dioxygenase which is the first enzyme in the carnitine biosynthesis pathway. Carnitine play an essential role in the transport of activated fatty acids across the inner mitochondrial membrane. The encoded protein converts trimethyllysine into hydroxytrimethyllysine. A pseudogene of this gene is found on chromosome X. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

Product images:



Circular map for RC214667