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Product datasheet for SC111322

TMLHE (NM_018196) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMLHE (NM_018196) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMLHE
Synonyms:	AUTSX6; BBOX2; TMLD; TMLH; TMLHED; XAP130
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_018196 edited ATGTGGTACCACAGATTGTCCCACCTACACAGCAGGCTTCAGGACTTGCTGAAGGGAGGA GTCATATATCCGGCCCTTCCACAGCCCAACTTCAAAAGCTTACTTCCTTTAGCTGTCCAT TGGCACCATACAGCCTCCAAGTCTCTGACTTGTGCTTGGCAGCAACATGAAGATCATTTT GAGCTGAAATATGCTAATACCGTGATGCGCTTTGATTACGTCTGGCTTCGAGACCACTGC CGCTCAGCATCGTGCTACAACTCTAAGACTCACCAGCGCAGCCTGGATACTGCCAGTGTG GATTTATGTATCAAGCCAAAGACCATTCGTCTGGATGAGACCACACTCTTTTTCACTTGG CCAGATGGTCATGTGACTAAATATGATTTGAATTGGCTGGTGAAAAACAGCTATGAAGGG CAGAAACAAAAAGTCATCCAGCCTAGAATACTATGGAATGCTGAAATCTACCAGCAAGCC CAAGTTCCATCGGTAGATTGCCAGAGCTTCTTAGAAACCAACGAGGGACTGAAGAAGTTT CTGCAAAACTTTCTGCTCTATGGAATTGCATTCGTAGAAAATGTCCCTCCCACTCAAGAG CACACAGAGAAGTTGGCAGAAAGGATCAGCTTAATCAGAGAAACCATTTATGGGAGGATG TGGTATTTCACTTCAGACTTCTCCAGAGGTGACACTGCGTACACCAAGCTAGCTCTGGAT CGGCACACTGACACTACCTATTTTCAAGAGCCCTGTGGCATTCAAGTGTTTCATTGTCTT AAACATGAAGGAACTGGTGGCAGGACACTGCTAGTAGATGGATTCTATGCAGCAGAACAG GTACTTCAAAAGGCACCTGAGGAATTTGAACTCCTCAGTAAAGTGCCATTGAAGCATGAA TATATTGAAGATGTTGGAGAATGTCACAACCACATGATTGGGATTGGGCCAGTCTTAAAT ATCTACCCATGGAATAAAGAGCTGTATTTGATCAGGTACAACAACTATGACCGGGCTGTC ATCAATACCGTTCCTTATGATGTCGTCCATCGCTGGTATACAGCACACCGGACTCTAACG ATAGAGTTGAGGAGACCTGAGAATGAGTTTTGGGTCAAACTAAAGCCTGGCAGGGTCCTA TTTATAGACAACTGGCGTGTCCTACATGGCAGGGAATGCTTCACTGGCTACCGCCAACTG TGTGGCTGCTATTTAACAAGAGATGATGTATTAAACACTGCTCGCCTCTTGGGGCTTCAG GCTTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018196 unedited
AATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCGAGCGGGCTGGGGGAGGG
GAGCGTGGGGCCGACAGTTTTGGGGGTGAAAAGGCAAAAGGCGGGTGAAAGGCTGCCTCC
CGAGACTCTCCTTGCTTGGAATTCTGCCCACTCTGCGGAGTTAGCAGTCACGACCTCCAG
CACAGGATGTGGTACCACAGATTGTCCCACCTACACAGCAGGCTTCAGGACTTGCTGAAG
GGAGGAGTCATATATCCGGCCCTTCCACAGCCCAACTTCAAAAGCTTACTTCCTTTAGCT
GTCCATTGGCACCATACAGCCTCCAAGTCTCTGACTTGTGCTTGGCAGCAACATGAAGAT
CATTTTGAGCTGAAATATGCTAATACCGTGATGCGCTTTGATTACGTCTGGCTTCGAGAC
CACTGCCGCTCAGCATCGTGCTACAACTCTAAGACTCACCAGCGCAGCCTGGATACTGCC
AGTGTGGATTTATGTATCAAGCCAAAGACCATTCGTCTGGATGAGACCACACTCTTTTTC
ACTTGGCCAGATGGTCATGTGACTAAATATGATTTGAATTGGCTGGTGAAAAACAGCTAT
GAAGGGCAGAAACAAAAAGTCATCCAGCCTAGAATACTATGGAATGCTGAAATCTACCAG
CAAGCCCAAGTTCCATCGGTAGATTGCCAGAGCTTCTTAAAAACAACGAGGGACTGAAGA
AATTTCTGCAAAACTTTCTGCTCTATGGAANTGCATTCGTAGAANATGTCCCTCCCACTC
AGACACACAGAGAAGNTGGGCAGAAGGATCAGCTTNATCAGAGAACCATTTATGGGGAGA
TGTGGTATTTCACTTCAGACTCTNCAGAGTGACCTGCGTACACCAGCTAGCTCTGATCGG
CCACTGACCTACTATTTCAGAGCCTGGGCATCAGTGTTCATGGCTAAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018196 unedited
GCTATGGACCGCGGCCCGCCTGCTAAATACGGTTAATCCCTTTTTTTTTTTGACTCATTC
AAATTTTGGCAATTAGCATGTATAGTATGCCTATGAGAGAGAGAGAGAGAAATTAGCAGA
AATGGAGGAAAACATATTACATCCTAAATACCACCAAATTGCCAAAATACACATTTGGGT
AGTAATCTCCAGAGAACTCTCTGGAGGCACAGCATCTATCATGCTGATTTCCCTGAACAA
TATTACAGAATAGCCCTGTGTACTTTCTCTTGGGGGGGGGAGGTGTAAAGAATTATCATA
TGGAACCTCACAAGTCTCTAAAACCTTTCTGCAATTATCCCTCATAGGATTACCACACTG
ATGAGTTTGTTCAACAGGCGCTGTTGTGACTTCCTAATTTAACTCCTATAGAGATGATTT
GTGTGGAAGATAAAACACTATATTTGAACTCAATTCCCACCTTATCCCTGAGCTTATGCT
ACCAAGCAATTCTTACAATGTTTGGAGTTCTATTAGACTACAGAGAAGAATCTAGGGTTT
CAGCTAAACCCTTTAATCCACAGGCCTAGGTAAAGGACTGTCTCAAGGTAGTCGCTAGCC
CATGGGTTCTCAAAGTATGGTCTGAAGACCCCTGGAGGAGTCCCTGAGACCCTTTTCGTG
GGTCTGCAGATTAAAAATTATTTTGTATAATAACACCAAGATGAGTTACATTCAATTAGG
CATTTTTCTTTTGAAATTAAGCAGACTTTTGGAAACTAAGATGTGCATAGCCCTGTAGTA
AGCTAAGTGGAAGTTACCAAGGCAGTAGTAGCCTTTTTTTCCCCCTCTCGNTATCTCATG
AAGATACAGAGGACTTTTCCAGAGCTACATGACATATGGTTATGGCATCTCTCTCATAGC
TGACGGATGTGTGCTTCCGCGCTCCCTTCTGAGCTCTTAAAATTTCTCAGTCCTTATACC
CTAAATAATTAGTACTCCAAGATAGGACCCCACN

Restriction Sites: NotI-NotI

ACCN: NM_018196

Insert Size: 2880 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_018196.1, NP_060666.1

RefSeq Size: 2836 bp

RefSeq ORF: 1266 bp

Locus ID: 55217

UniProt ID: Q9NVH6

Cytogenetics: Xq28

Domains: Gamma-BBH

Protein Pathways: Lysine degradation

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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.