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Product datasheet for SC123551

TMLHE (BC025269) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMLHE (BC025269) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMLHE
Synonyms:	BBOX2; butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 2; epsilon-trimethyllysine 2-oxoglutarate; epsilon-trimethyllysine hydroxylase; FLJ10727; OTTHUMP00000024255; TMLH; trimethyllysine hydroxylase, epsilon; XAP130
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC025269 edited GGCGGGTGAAAGGCTGCCTCCCGAGACTCTCCTTGCTTGGAATTCTGCCCACTCTGCGGA GTTAGCAGTCACGACCTCCAGCACAGGATGTGGTACCACAGATTGTCCCACCTACACAGC AGGCTTCAGGACTTGCTGAAGGGAGGAGTCATATATCCGGCCCTTCCACAGCCCAACTTC AAAAGCTTACTTCCTTTAGCTGTCCATTGGCACCATACAGCCTCCAAGTCTCTGACTTGT GCTTGGCAGCAACATGAAGATCATTTTGAGCTGAAATATGCTAATACCGTGATGCGCTTT GATTACGTCTGGCTTCGAGACCACTGCCGCTCAGCATCGTGCTACAACTCTAAGACTCAC CAGCGCAGCCTGGATACTGCCAGTGTGGATTTATGTATCAAGCCAAAGACCATTCGTCTG GATGAGACCACACTCTTTTTCACTTGGCCAGATGGTCATGTGACTAAATATGATTTGAAT TGGCTGGTGAAAAACAGCTATGAAGGGCAGAAACAAAAAGTCATCCAGCCTAGAATACTA TGGAATGCTGAAATCTACCAGCAAGCCCAAGTTCCATCGGTAGATTGCCAGAGCTTCTTA GAAACCAACGAGGGACTGAAGAAGTTTCTGCAAAACTTTCTGCTCTATGGAATTGCATTC GTAGAAAATGTCCCTCCCACTCAAGAGCACACAGAGAAGTTGGCAGAAAGGATCAGCTTA ATCAGAGAAACCATTTATGGGAGGATGTGGTATTTCACTTCAGACTTCTCCAGAGGTGAC ACTGCGTACACCAAGCTAGCTCTGGATCGGCACACTGACACTACCTATTTTCAAGAGCCC TGTGGCATTCAAGTGTTTCATTGTCTTAAACATGAAGGAACTGGTGGCAGGACACTGCTA GTAGATGGATTCTATGCAGCAGAACAGGTACTTCAAAAGGCACCTGAGGAATTTGAACTC CTCAGTAAAGTGCCATTGAAGCATGAATATATTGAAGATGTTGGAGAATGTCACAACCAC ATGATTGGGATTGGGCCAGTCTTAAATATCTACCCATGGAATAAAGAGCTGTATTTGATC AGATTATTCAAAGAAAAACAAAACACGGTCAACAGGCAGTGGAACTCCTCACTCCAATGT GATATTCCTGAGAGAATATTGACTTATCGTCACTTCGTCTCTGGGACAAGTATTGAACAT AGGGGAAGCCTTATATAAAATTGTTCAATAAACAAAAGATGTCTTTAAAAAAAAAAAAAA AAAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for BC025269 unedited
NAAAGTTCAAATTTTGTAATACGAACTCACTATAGGGCGGCCGCGATTCTGCCCACTCTG
CGGAGTTAGCAGTCACGACCTCCAGCACAGGATGTGGTACCACAGATTGTCCCACCTACA
CAGCAGGCTTCAGGACTTGCTGAAGGGAGGAGTCATATATCCGGCCCTTCCACAGCCCAA
CTTCAAAAGCTTACTTCCTTTAGCTGTCCATTGGCACCATACAGCCTCCAAGTCTCTGAC
TTGTGCTTGGCAGCAACATGAAGATCATTTTGAGCTGAAATATGCTAATACCGTGATGCG
CTTTGATTACGTCTGGCTTCGAGACCACTGCCGCTCAGCATCGTGCTACAACTCTAAGAC
TCACCAGCGCAGCCTGGATACTGCCAGTGTGGATTTATGTATCAAGCCAAAGACCATTCG
TCTGGATGAGACCACACTCTTTTTCACTTGGCCAGATGGTCATGTGACTAAATATGATTT
GAATTGGCTGGTGAAAAACAGCTATGAAGGGCAGAAACAAAAAGTCATCCAGCCTAGAAT
ACTATGGAATGCTGAAATCTACCAGCAAGCCCAAGTTCCATCGGTAGATTGCCAGAGCTT
CTTAGAAACCAACGAGGGACTGAAGAAGTTTCTGCAAAACTTTCTGCTCTATGGAATTGC
ATTCGTAGAAAATGTCCCTCCCACTCAAGAGCACACAGAGAAGTTGGCAGANAGGATCAG
CTTAATCAGAGAAACCATTTATGGGAGGATGTGGTATTTCACTTCAGACTTCTCCAGAGG
TGACACTGCGTACACCAAGCTAGCTCTGGATCGGCACACTGACACTACCTATTTTTCAGA
GCCCCTGTGCATTTCAGTGNTTCATTGTCTTAACATTGAAGACTGGNTGCAGGACACTGC
TAGTAGATGAT

Restriction Sites: Please inquire

ACCN: BC025269

Insert Size: 1264 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: BC025269.1, AAH25269.1

RefSeq Size: 1264 bp

Locus ID: 55217

Cytogenetics: Xq28

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]