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Product datasheet for RC205018

MCEE (NM_032601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCEE (NM_032601) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCEE
Synonyms:	GLOD2; MCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205018 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGGGTGCTGAAGGCTGCAGCCGCGAATGCCGTAGGGCTTTTTTCCAGACTTCAAGCTCCCATTC
CAACAGTAAGAGCTTCTTCCACATCACAGCCCTTGGATCAAGTGACAGGTTCTGTGTGGAACCTGGGTCG
ACTCAACCATGTAGCCATAGCAGTGCCAGATTTGGAAAAGGCTGCAGCATTTTATAAGAATATTCTGGGG
GCCCAGGTAAGTGAAGCGGTCCCTCTTCCTGAACATGGAGTATCTGTTGTTTTTGTCAACCTGGGAAATA
CCAAGATGGAACTGCTTCATCCATTGGGACTTGACAGTCCAATTGCAGGTTTTCTGCAGAAAAACAAGGC
TGGAGGAATGCATCACATCTGCATCGAGGTGGATAATATTAATGCAGCTGTGATGGATTTGAAAAAAAAG
AAGATCCGCAGTCTAAGTGAAGAGGTCAAAATAGGAGCACATGGAAAACCAGTGATTTTTCTCCATCCTA
AAGACTGTGGTGGAGTCCTTGTGGAACTGGAGCAAGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205018 protein sequence
Red=Cloning site Green=Tags(s)

MARVLKAAAANAVGLFSRLQAPIPTVRASSTSQPLDQVTGSVWNLGRLNHVAIAVPDLEKAAAFYKNILG
AQVSEAVPLPEHGVSVVFVNLGNTKMELLHPLGLDSPIAGFLQKNKAGGMHHICIEVDNINAAVMDLKKK
KIRSLSEEVKIGAHGKPVIFLHPKDCGGVLVELEQA

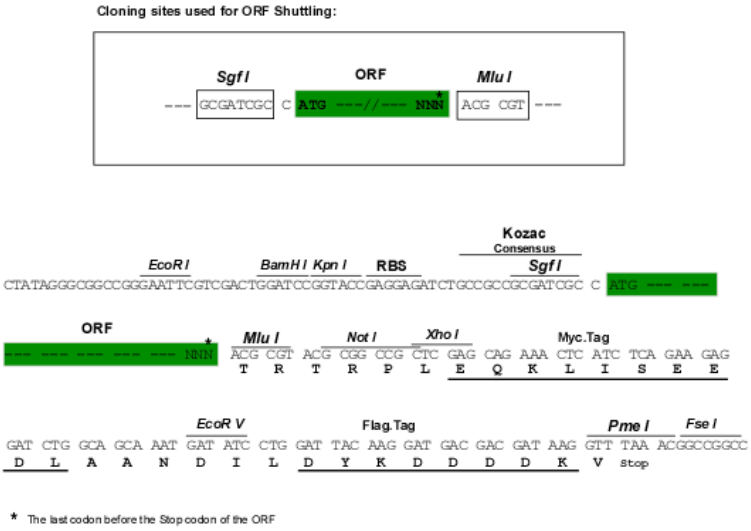
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6069_f01.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032601

ORF Size: 528 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_032601.2, NP_115990.2

RefSeq Size: 875 bp

RefSeq ORF: 531 bp

Locus ID: 84693

UniProt ID: Q96PE7

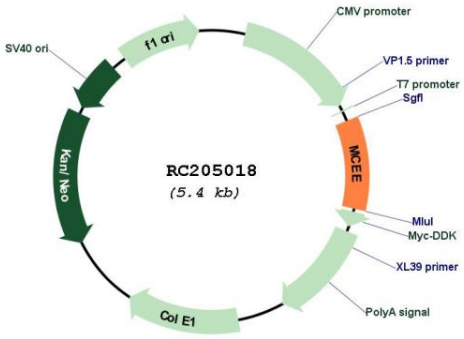
Cytogenetics: 2p13.3

Protein Pathways: Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation

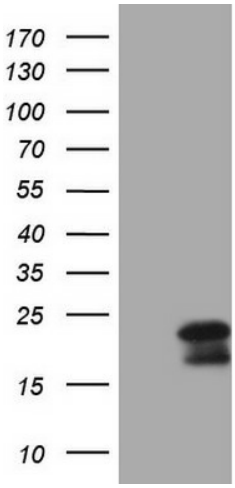
MW: 18.7 kDa

Gene Summary: The product of this gene catalyzes the interconversion of D- and L-methylmalonyl-CoA during the degradation of branched chain amino acids. odd chain-length fatty acids, and other metabolites. Mutations in this gene result in methylmalonyl-CoA epimerase deficiency, which is presented as mild to moderate methylmalonic aciduria. [provided by RefSeq, Jul 2008]

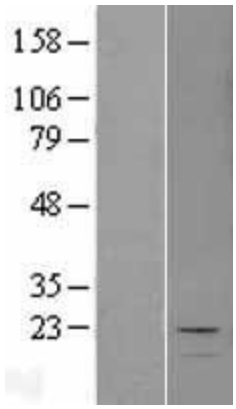
Product images:



Circular map for RC205018



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MCEE (Cat# RC205018, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MCEE (Cat# [TA808532])(1:2000). Positive lysates [LY403176] (100ug) and [LC403176] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403176]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205018 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).