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Product datasheet for RG205018

MCEE (NM_032601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCEE (NM_032601) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCEE
Synonyms:	GLOD2; MCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205018 representing NM_032601
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGGGTGCTGAAGGCTGCAGCCGCGAATGCCGTAGGGCTTTTTTCCAGACTTCAAGCTCCCATTC
CAACAGTAAGAGCTTCTTCCACATCACAGCCCTTGGATCAAGTGACAGGTTCTGTGTGGAACCTGGGTCG
ACTCAACCATGTAGCCATAGCAGTGCCAGATTTGGAAAAGGCTGCAGCATTTTATAAGAATATTCTGGGG
GCCCAGGTAAGTGAAGCGGTCCCTCTTCCTGAACATGGAGTATCTGTTGTTTTTGTCAACCTGGGAAATA
CCAAGATGGAACTGCTTCATCCATTGGGACTTGACAGTCCAATTGCAGGTTTTCTGCAGAAAAACAAGGC
TGGAGGAATGCATCACATCTGCATCGAGGTGGATAATATTAATGCAGCTGTGATGGATTTGAAAAAAAAG
AAGATCCGCAGTCTAAGTGAAGAGGTCAAAATAGGAGCACATGGAAAACCAGTGATTTTTCTCCATCCTA
AAGACTGTGGTGGAGTCCTTGTGGAACTGGAGCAAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205018 representing NM_032601
Red=Cloning site Green=Tags(s)

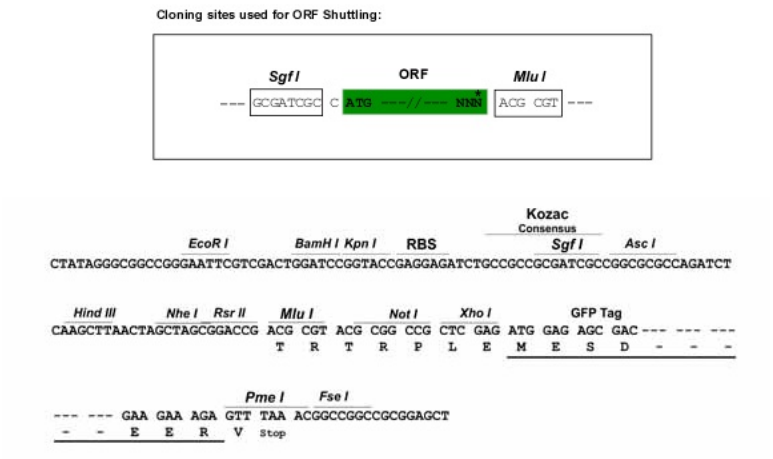
MARVLKAAAANAVGLFSRLQAPIPTVRASSTSQPLDQVTGSVWNLGRLNHVAIAVPDLEKAAAFYKNILG
AQVSEAVPLPEHGVSVVFVNLGNTKMELLHPLGLDSPIAGFLQKNKAGGMHHICIEVDNINAAVMDLKKK
KIRSLSEEVKIGAHGKPVIFLHPKDCGGVLVELEQA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



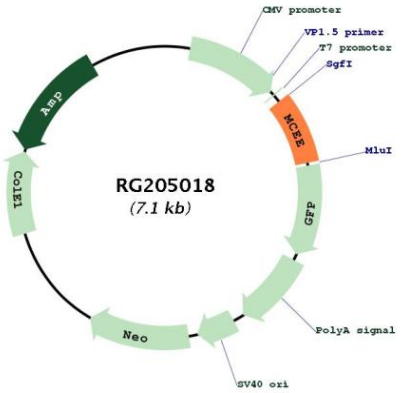
ACCN:	NM_032601
ORF Size:	528 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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:	850 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

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 RG205018