

Product datasheet for MR205775

Mecr (NM_025297) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mecr (NM_025297) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mecr
Synonyms:	A1195831; NRBF-1; Nrbf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205775 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGTCAGCCAGCGAGTGACAGGGGCGGAGCCCGGCACCTCAGCTTGCGGGTCTCCTCGAGGCTT
GGTACCGCCACGGCCGGACCACATCCTCTACTCCGCTCTCTCTGAGCCGTACGGGTGCGGGCGCTGGT
CTATGGCAACCATGGGGATCCAGCCAAGGTCGTCAGCTGAAGAACCTGGAGCTCACTGCTGGAAGGA
TCTGACGTCCACGTGAGGATGCTGGCAGCCCTATCAATCCATCTGACATAAATATGATCCAAGGGA
ATGGCCTCCTTCCAAGCTGCCTGCTGTTGGAGGGAACGAAGGCGTTGGGCAGGTGATAGCGGTGGCAG
CAGTGTGTCTGCATTGAAGCCAGGAGATTGGGTGATCCCTGCAAATGCGGGTTTGGGAACCTGGCGGACT
GAGGCGGTGTTCACTGAGGAAGCACTGATTGGAATCCCTAAGGACATTCCTCTCCAGAGCGCTGCCACCC
TAGGTGTCAACCCCTGCACAGCCTACAGGATGTTGGTGGACTTTGAACAGCTGCAGCCAGGGGACTCTGT
CATCCAGAATGCATCCAACAGTGGAGTGGGCAAGCAGTCATTAGATCGCCTCAGCCCTTCGCCTAAAG
ACCATCAACGTTGTCCGAGACAGACCCGACATCAAGAAGCTAACTGACAGACTGAAGGATCTAGGAGCTG
ATTATGTCCTCACAGAGGAAGAGCTAAGGATGCCCGAGACAAAACCATCTCAAGGACCTGCCGCTGCC
CCGATTGGCTCTCAACTGTGTTGGTGGGAAGAGTTCTACAGAGCTGCTCCGGCACCTAGCGCCGGAGGA
ACCATGGTGACCTATGGGGGAATGGCCAACAGCCTGTAAACAGCCTCTGTGAGTCTGCTCATTITTAAGG
ACCTCAAACCTTCGGGGCTTTTGGTTGTCCAGTGGGAAGAAGAACACAGTCCAGATGAGTTCAAGGAGCT
GATTCTCACTCTCTGCAACCTCATCCGCCAAGGCCGGCTCACAGCCCATCCTGTTCTGAGGTTCCACTG
CAGGGCTACCAGCAGGCTTTGGAAGCCTCCATGAAGCCTTTTGTGCTTTCGAAGCAGATTCTCACCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205775 protein sequence
 Red=Cloning site Green=Tags(s)

MLVSQRVTGARARAPQLAGLLEAWYRHGRITSSYSALSEPSRVRLVYGNHGDPKVVQLKNELETAVEG
 SDVHVRMLAAPINPSDINMIQGNVGLLPKLPAVGGNEGVQVIAVGSSVSALKPGDWVIPANAGLTWRT
 EAVFSEEALIGIPKDIPLQSAATLGVNPTAYRMLVDFEQLQPGDSVIQNASNSGVGQAVIQIASALRLK
 TINVVRDRPDIKKLTDRDKDLGADYVLTEELRMPETKTIKFDLPLPRLALNCVGGKSSTELLRHLAPGG
 TMVTYGGMAKQPVTASVSLLIKFDLKLGRFWSQWKKNHSPDEFKELILTLCNLIRQGRLTAPSCSEVPL
 QGYQQALEASMKPFVSSKQILTM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025297

ORF Size: 1122 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_025297.1](#), [NM_025297.2](#), [NP_079573.1](#), [NP_079573.2](#)

RefSeq Size: 1337 bp

RefSeq ORF: 1122 bp

Locus ID: 26922

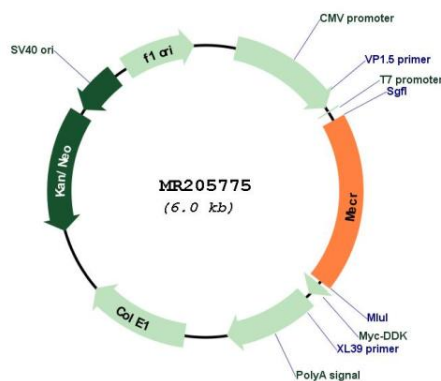
UniProt ID: [Q9DCS3](#)

Cytogenetics: 4 D2.3

MW: 40.3 kDa

Gene Summary: Catalyzes the NADPH-dependent reduction of trans-2-enoyl thioesters in mitochondrial fatty acid synthesis (fatty acid synthesis type II). Fatty acid chain elongation in mitochondria uses acyl carrier protein (ACP) as an acyl group carrier, but the enzyme accepts both ACP and CoA thioesters as substrates in vitro. Has a preference for short and medium chain substrates, including trans-2-hexenoyl-CoA (C6), trans-2-decenoyl-CoA (C10), and trans-2-hexadecenoyl-CoA (C16).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205775