

## Product datasheet for MC207465

### Mecr (NM\_025297) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mecr (NM\_025297) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mecr  
**Synonyms:** AI195831; NRBF-1; Nrbf1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207465 representing NM\_025297  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTTGGTCAGCCAGCGAGTGACAGGGGCGGAGCCCGGCACCTCAGCTTGCGGGTCTCCTCGAGGCTT  
 GGTACCGCCACGGCCGGACCACATCCTCCTACTCCGCTCTCTCTGAGCCGTACGGGTGCGGGCGCTGGT  
 CTATGGCAACCATGGGGATCCAGCCAAGGTCGTCAGCTGAAGAACCTGGAGCTCACTGCTGTGGAAGGA  
 TCTGACGTCCACGTGAGGATGCTGGCAGCCCTATCAATCCATCTGACATAAATATGATCCAAGGGAAC  
 ATGGCCTCCTTCCAAGCTGCCTGCTGTTGGAGGGAACGAAGGCGTTGGGCAGGTGATAGCGGTGGGCAG  
 CAGTGTGTCTGCATTGAAGCCAGGAGATTGGGTGATCCCAGCAAATGCGGGTTTGGGAACCTGGCGGACT  
 GAGGCGGTGTTGAGTGGGAAGCACTGATTGGAATCCCTAAGGACATTCCTCCTCAGAGCGCTGCCACCC  
 TAGGTGTCAACCCTGCACAGCCTACAGGATGTTGGTGGACTTTGAACAGCTGCAGCCAGGGGACTCTGT  
 CATCCAGAATGCATCCAACAGTGGAGTGGGCAAGCAGTCATTCAGATCGCCTCAGCCCTTCGCCTAAAG  
 ACCATCAACGTTGTCCGAGACAGACCCGACATCAAGAAGCTAACTGACAGACTGAAGGACTAGGAGCTG  
 ATTATGTCCTCACAGAGGAAGAGCTAAGGATGCCCGAGACAAAACCATCTTCAAGGACCTGCCGCTGCC  
 CCGATTGGCTCTCAACTGTGTTGGTGGGAAGAGTTCTACAGAGCTGCTCCGGCACCTAGCGCCCGGAGGA  
 ACCATGGTGACCTATGGGGGAATGGCAAAACAGCCTGTAACAGCCTCTGTGAGTCTGCTCATTTTTAAGG  
 ACCTCAAACCTTCGGGGCTTTTGGTTGTCCAGTGGAAAGAACCACAGTCCAGATGAGTTCAAGGAGCT  
 GATTCTCACTCTCTGCAACCTCATCCGCAAGGCCGGCTCACAGCCCCATCCTGTTCTGAGGTTCCACTG  
 CAGGGCTACCAGCAGGCTTTGGAAGCCTCCATGAAGCCTTTTGTCTTTCGAAGCAGATTCTCACCATGT  
 GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI



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<b>ACCN:</b>	NM_025297
<b>Insert Size:</b>	1122 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_025297.2</a></u> , <u><a href="#">NP_079573.2</a></u>
<b>RefSeq Size:</b>	1337 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	26922
<b>UniProt ID:</b>	<u><a href="#">Q9DCS3</a></u>
<b>Cytogenetics:</b>	4 D2.3
<b>Gene Summary:</b>	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]