

Product datasheet for **MC201157**

Ehhadh (NM_023737) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ehhadh (NM_023737) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ehhadh
Synonyms:	1300002P22Rik; HD; L-PBE; LBFP; LBP; MFP; MFP1; PBFE
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC016899 sequence for NM_023737
 CCCACGCGTCCGAGGATACCTTGAGAAAATGGCTGAGTATCTGAGGCTGCCCACTCCCTGGCTATGATC
 CGCCTCTGCAATCCACCGGTCAATGCCATCAGTCCAAGTAAATCACAGAAGTAAGGAATGGACTCCAGA
 AAGCTAGTTTGGACCATACGGTTAGAGCCATAGTATCTGTGGAGCAAATGACAACCTTCTGTGCAGGTGC
 TGATATCCATGGCTTTAAATCTCCCACTGGCCTTACATTAGGAAGCTTGGTAGATGAAATACAGCGATAC
 CAGAAGCCAGTGGTGGCCGCATCCAAGCGTGGCTCTTGGAGGAGGACTAGAGCTGGCCTTGGGCTGTC
 ACTATCGGATTGCCAATGCAAAGGCTCGTGTGGCTTCCCGAAGTGATGCTGGGAATTCCTCTGGTGC
 AAGAGGAACGCAGCTTCTACCCAGGGCTGGTGGAGTTCCCTGTTGCTCTTGAATTAATTACCTCAGGAAGA
 CATATTTCAACAGATGAAGCACTCAAGCTTGAATTCTGGATGTAGTTGTAAAGTCAAGCCAGTTGAAG
 AAGCCATCAAATTTGCTCAGACGGTTATAGGTAACCCATAGAACCCCGCAGGATCCTAAACAAGCCAGT
 CCCAAGCTTGCCCAACATGGACAGTGTGTTTGCAGAAGCCATTGCCAAGGTACGGAAGCAGTACCCTGGC
 CGCCTGGCTCCGGAGACTTGTGTCGTTTCCAGTCCAGGCCCTCCGTGAAGCATCCATATGAAGTGGCCATCA
 AGGAAGAAGCAAAGCTGTTTATGTACCTTCGGGGTTCGGGGCAGGCTAGAGCCCTGCAGTACGCCTTTT
 TGCTGAAAAGTCTGCAAATAAGTGGTCAACTCCCTCAGGAGCATCTTGGAAAACAGCATCTGCTCAACCC
 GTCTCCTCGGTTGGTGTCTTGGCTTGGGAACGATGGGCCGAGGATCGCCATCTCTTTGCAAGGGTGG
 GGATCCCTGTGGTTGCTGTAGAGTCAGACCCAAAGCAGCTAGATACTGCAAAGAAGATAAATACTCCAC
 CTTGAAAAGGAAGCATCGAAGAGTGGCCAAGCTTCAGCAAAAACCAAACCTCAGGTTCTCCTCATCCACA
 AAGGAGCTTTCGAGTGTGGATTTAGTGATTGAAGCAGTGTTCGAAGATATGAACCTGAAGAAGAAGGTCT
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 TGACATTTGCTTCTCCACAGATCGCCCCAGCTGGTGGTGGCACCCACTTCTTCCCCAGCCACATC
 ATGAGGTTACTAGAGTCACTTCCAGCCGATCTTCCCCCACTACCATCGCCACAGTCATGAGCTTAT
 CAAAAGGATTGGAAGATTGGAGTCTGTTGGTAACTGCTATGGATTTGTTGGGAATCGAATGTTGGC
 TCCCTATTACAACAGGGCTATTTCTTGATAGAGGAAGTAGTAAGCCAGAGGATGTAGATGGGATCTTA
 GAAGAGTTTGGTTTTAGAATGGGACCCTTCAGGGTGTCTGACCTCGCAGGGCTAGATGTGGTTGGAAAG
 TTCGAAAAGGGCAAGGCCTTACTGGACCGTCTTACCTCAGGAACCCCAACCCGAAAGAGGGGCAATAC
 CAGGTAATCCCAATGCTGATATGCTCTGTGAAGCTGGGCGATTTGGTCAAGACAGGTAAGGGCTGG
 TATCAGTATGACAAGCCACTGGGTGCGATCCACAAACCTGATCCCTGGCTTTCTGAGTTTCTGTCACAGT
 ATAGAGAAACCCATCACATCAAGCAGCGTCCATCAGCAAGGAGGAAATCCTGGAGCGTTGCTTATATTC
 CCTTATCAACGAGGCATTCGTCATCTTGGAGGAGGGATGGCCGCTAGCCAGAGCATTGATGTCATC
 TACTTGCATGGGTATGGGTGGCCAAAGGCACGTGGGTGGGCCATGTAATGCTGCCTCAGTTGGGCTGC
 CCACAGTTCTAGAGAAATGCAGAAATATTACAGACAGAAATCCTGACATCCCCAGCTGGAGCCAGTGA
 CTACCTGAGGAGGCTGGTTGCCAGGAAAGCCCTCCTCTGAAAGAATGGCAAAGCTTGGCAGGACCCCAT
 AGCAGCAAACGTGATTAGCCTTCTGCATTTTGCATGTATGGTGGCATCTAATTTCAAGTGTGATTTCAT
 TCCTAAAATCAAACAGATTTCTCTGAAGTACAAATGATGATTGCTGCTGTTGCTGCTGCTGGTGGT
 GGTGGTGTAAATGGTCAGCAAAAGCCCTCTCTGTATCTTCTACCTCATAATTCTAATGGCCAGATTT
 CAGGAATGTGTTTCTATACCTCTGACGGTACTTCTATCAGAAAAATTCAGCAAATATGATTTACTACT
 GCAAGCGTTCTTCTCTTTGACTGTTTGGTATAGCCATAACTTATACAAAATGTTGCTAAGAGAAT
 AATTCATAACTCCAGTTGACAACCCAGATATACCTTTTAGCAAATCAACAAAAGTGGCATGGACATACAA
 GTCACACATTTAGCTGTGTGACGGAACATGATGCACCATGGTGTGTTGTCAGCATTGCTCTGACTAA
 GAGGAGGCAGCCAAAGAAGGCCACATGTATATGGATGTGGATATAAATTCAGAAATATACAGATCTGA
 GAACAATGTAGATGAGTAGCCAAAGGCTATAATTGTTTTAAGTTAAAATTAAGTGTGATTAATACAGAGT
 ATCTTTGGAGTTTGATAAACTTTTCTAAAATTAAGTTAGTGGTGTATCTGTAACACATTGAGTTCAATGG
 TTCAAAGTGAAGTATGTAGTGTGTGTATATACACACAACATATATATATATATATATATATATA
 TTCTATCTCAATGAAGTTAATAAAATTAATGATGGTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_023737
Insert Size: 2157 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:	<ol style="list-style-type: none">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:	BC016899 , AAH16899
RefSeq Size:	2993 bp
RefSeq ORF:	2157 bp
Locus ID:	74147
UniProt ID:	Q9DBM2
Cytogenetics:	16 B1
Gene Summary:	<p>Peroxisomal trifunctional enzyme possessing 2-enoyl-CoA hydratase, 3-hydroxyacyl-CoA dehydrogenase, and delta 3, delta 2-enoyl-CoA isomerase activities. Catalyzes two of the four reactions of the long straight chain fatty acids peroxisomal beta-oxidation pathway. Optimal isomerase for 2,5 double bonds into 3,5 form isomerization in a range of enoyl-CoA species. Also able to isomerize both 3-cis and 3-trans double bonds into the 2-trans form in a range of enoyl-CoA species (By similarity). With HSD17B4, catalyzes the hydration of trans-2-enoyl-CoA and the dehydrogenation of 3-hydroxyacyl-CoA, but with opposite chiral specificity (Probable). Regulates the amount of medium-chain dicarboxylic fatty acids which are essential regulators of all fatty acid oxidation pathways (PubMed:24075987). Also involved in the degradation of long-chain dicarboxylic acids through peroxisomal beta-oxidation (By similarity).</p> <p>[UniProtKB/Swiss-Prot Function]</p>