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Product datasheet for MC206157

Mdh1 (BC050940) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mdh1 (BC050940) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mdh1
Synonyms:	MDHA, MDH-s
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC050940 GTAGAGGTGACCTGACTGCTGGAGACTGCCTTTTGCAGGTGCAGAGATCGGCCTTGCAGTTTGCAATAAT GTCTGAACCAATCAGAGTCCTTGTGACTGGAGCAGCTGGTCAAATTGCATATTCACTGTTGTACAGTATT GGAAATGGATCTGTCTTTGGGAAAGACCAGCCCATCATTCTTGTGCTGTTGGACATCACCCCCATGATGG GTGTTCTGGACGGTGTCCTGATGGAACTGCAAGACTGTGCCCTTCCCCTTCTGCAGGATGTCATTGCAAC GGACAAAGAAGAGATTGCCTTCAAAGACCTGGATGTGGCTGTCCTAGTGGGCTCCATGCCAAGAAGGGAA GGCATGGAGAGGAAGGACCTACTGAAAGCCAATGTGAAAATCTTCAAATCCCAGGGCACAGCCTTGGAGA AATACGCCAAGAAATCAGTTAAGGTCATTGTTGTGGGAAACCCAGCCAATACGAACTGCCTGACAGCCTC CAAGTCAGCGCCATCGATCCCCAAGGAGAATTTCAGTTGCCTGACTCGCTTGGACCACAACCGAGCAAAA TCTCAAATTGCTCTTAAACTCGGTGTAACCGCTGATGATGTAAAGAATGTCATTATCTGGGGAAATCATT CATCGACCCAGTATCCAGATGTCAATCATGCCAAGGTGAAACTGCAAGGAAAGGAAGTCGGTGTGTATGA AGCCCTGAAAGACGACAGCTGGCTGAAGGGAGAGTTCATCACGACTGTGCAACAGCGTGGTGCTGCTGTC ATCAAGGCTCGGAAGCTGTCCAGTGCAATGTCTGCTGCGAAAGCCATCGCAGACCACATCAGAGACATCT GGTTTGGAACCCCAGAGGGAGAGTTCGTGTCGATGGGTGTTATCTCTGATGGCAACTCCTATGGTGTCCC TGATGACCTGCTCTACTCATTCCCTGTCGTGATCAAGAATAAGACCTGGAAGTTTGTTGAAGGCCTCCCC ATTAATGACTTCTCCCGTGAAAAGATGGACCTGACAGCAAAGGAGCTGACCGAGGAAAAGGAGACCGCTT TTGAGTTTCTCTCCTCTGCGTGACTAGACACTCGTTTTGACATCAGCAGACAGCCGAAGGCTGAGGAATC AAAATGTCGTCTTTGAGCCTAGTACCAAACAGTAATAATGCTACATTCAAATTGTGAACAGCAAAATATT TTAAATAGTGTGTGCTTTATGATTTGTGAAAGTCTATCATGTTGTTAGTGCTGCAATCTAAATAAAAGTA TATTCAAGTGAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	AscI-NotI
ACCN:	BC050940
Insert Size:	1005 bp

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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:	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:	BC050940, AAH50940
RefSeq Size:	1291 bp
RefSeq ORF:	1005 bp
Locus ID:	17449
Cytogenetics:	11 13.89 cM
Gene Summary:	This gene encodes an enzyme that catalyzes the NAD/NADH-dependent, reversible oxidation of malate to oxaloacetate in many metabolic pathways, including the citric acid cycle. Two main isozymes are known to exist in eukaryotic cells: one is found in the mitochondrial matrix and the other in the cytoplasm. This gene encodes the cytosolic isozyme, which plays a key role in the malate-aspartate shuttle that allows malate to pass through the mitochondrial membrane to be transformed into oxaloacetate for further cellular processes. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. A pseudogene has been identified on chromosomes 12. [provided by RefSeq, Feb 2016]