MTHFD1L cDNA Clone – Methylenetetrahydrofolate Dehydrogenase (NADP+ Dependent) 1-Like (Human)

PRODUCT OVERVIEW

Product Name	MTHFD1L, cDNA Clone
Full Product Name	MTHFD1L cDNA Clone
Product Gene Name	MTHFD1L cdna clone
Sequence	atgacaatga gcatccagtg gaaaacacgc cagcttcaaa gcaagcttca cgaggctgac attgtggtcc taggctcacc taagccagaa gagattcccc ttacttggat acaaccagga actactgttc tcaactgctc ccatgacttc ctgtcaggga aggttgggtg tggctctcca agaatacatt ttggtggact cattgaggaa gatgatgtga ttctccttgc tgcagctctg cgaattcaga acatggtcag tagtggaagg agatggcttc gtgaacagca gcacaggcgg tggagacttc actgcttgaa acttcagcct ctctcccctg tgccaagtga cattgagatt tcaagaggac aaactccaaa agctgtggat gtccttgcca aggagattgg attgcttgca gatgaaattg aaatctatgg caaaagcaaa gccaaagtac gtttgtccgt gctagaaagg ttaaaggatc aagcagatgg aaaatacgtc ttagttgctg ggatcacacc caccctctt ggagaaggga agagcacagt caccatcggg cttgtgcagg ctctgaccgc acacctgaat gtcaactcct ttgcctgctt gaggcagcct tcccaaggac cgacgtttgg agtgaaagga ggagccgcgg gtggtggata tgcccaggtc atccccatgg aggagttcaa ccttcacttg actggagaca tccacgccat caccgctgcc aataacttgc tggctgccgc catcgacacg aggattcttc atgaaaacac gcaaacagat aaggctctgt ataatcggct ggttccttta gtgaatggtg tcagagaatt ttcagaaatt cagcttgctc ggctaaaaaa actgggaata aataagactg atccgagcac actgacagaa gaggaagtga gtaaatttgc ccgtctcgac atcgacccat ctaccatcac gtggcagaga gtattggata caaatgaccg atttctacga aaaataacca tcgggcaggg aaacacagag aagggccatt accggcaggc gcagtttgac atcgcagtgg ccagcgagat catggcggtg ctggccctga cggacagcct cgcagacatg aaggcacggc tgggaaggat ggtggtggcc agtgacaaaa gcgggcagcc tgtgacagca gatgatttgg gggtgacagg tgctttgaca gttttgatga aagatgcaat aaaaccaaac ctgatgcaga ccctggaagg gacacctgtg ttcgtgcatg cgggcccttt tgctaacatt gctcacggca actcttcagt gttggctgat aaaattgccc tgaaactggt tggtgaagaa ggatttgtag tgaccgaagc tggctttggt gctgacatcg gaatggagaa attcttcaac atcaagtgcc gagcttccgg cttggtgccc aacgtggttg tgttagtggc aacggtgcga gctctgaaga tgcatggagg cgggccaagt gtaacggctg gtgttcctct taagaaagaa tatacagagg agaacatcca gctggtggca gacggctgct gtaacctcca gaagcaaatt cagatcactc agctctttgg ggttcccgtt gtggtggctc tgaatgtctt caagaccgac acccgcgctg agattgactt ggtgtgtgag cttgcaaagc gggctggtgc ctttgatgca gtcccctgct atcactggtc ggttggtgga aaaggatcgg tggacttggc tcgggctgtg agagaggctg cgagtaaaag aagccgattc cagttcctgt atgatgttca ggttccaatt gtggacaaga taaggaccat tgctcaggct gtctatggag ccaaagatat tgaactctct cctgaggcac aagccaaaat agatcgttac actcaacagg gttttggaaa tttgcccatc tgcatggcaa agacccacct ttctctatct caccaacctg acaaaaaagg tgtgccaagg gacttcatct tacctatcag tgacgtccgg gccagcatag gcgctgggtt catttaccct ttggtcggaa cgatgagcac catgccagga ctgcccaccc ggccctgctt ttatgacata gatcttgata ccgaaacaga acaagttaaa ggcttgttct aa
Molecular Weight	29,804 Da
OMIM	611427
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MTHFD1L cdna clone	MBS1272387 is a cDNA clone targeting MTHFD1L.
Other Notes	Small volumes of MTHFD1L cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTHFD1L. It may not necessarily be applicable to this product.

NCBI GI #	17028347
NCBI GeneID	25902
NCBI Accession #	BC017477
UniProt Secondary Accession #	Q2TBF3; Q8WVW0; Q96HG8; Q9H789; Q9UFU8

UniProt Related Accession #	Q6UB35
NCBI Official Full Name	Homo sapiens methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like, mRNA
NCBI Official Synonym Full Names	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like
NCBI Official Symbol	MTHFD1L
NCBI Official Synonym Symbols	FTHFSDC1; MTC1THFS; dJ292B18.2
UniProt Protein Name	Monofunctional C1-tetrahydrofolate synthase, mitochondrial
UniProt Synonym Protein Names	Formyltetrahydrofolate synthetase
Protein Family	Monofunctional C1-tetrahydrofolate synthase
UniProt Gene Name	MTHFD1L
UniProt Synonym Gene Names	FTHFSDC1
UniProt Entry Name	C1TM_HUMAN
NCBI Protein Information	monofunctional C1-tetrahydrofolate synthase, mitochondrial
NCBI Summary for MTHFD1L	The protein encoded by this gene is involved in the synthesis of tetrahydrofolate (THF) in the mitochondrion. THF is important in the de novo synthesis of purines and thymidylate and in the regeneration of methionine from homocysteine. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jun 2011]
UniProt Comments for MTHFD1L	MTHFD1L: May provide the missing metabolic reaction required to link the mitochondria and the cytoplasm in the mammalian model of one-carbon folate metabolism in embryonic an transformed cells complementing thus the enzymatic activities of MTHFD2. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ligase; Carbohydrate Metabolism - glyoxylate and dicarboxylate; EC 6.3.4.3; Mitochondrial; Cofactor and Vitamin Metabolism - one carbon pool by folate Chromosomal Location of Human Ortholog: 6q25.1 Cellular Component: cytosol; membrane; mitochondrial matrix; mitochondrion Molecular Function: ATP binding; formate-tetrahydrofolate ligase activity; methenyltetrahydrofolate cyclohydrolase activity; methylenetetrahydrofolate dehydrogenase (NADP+) activity; protein homodimerization activity Biological Process: embryonic neurocranium morphogenesis; embryonic viscerocranium morphogenesis; folic acid and derivative metabolic process; folic acid metabolic process; formate metabolic process; neural tube closure; one-carbon compound metabolic process; tetrahydrofolate metabolic process
Research Articles on MTHFD1L	**1.** rs6922269 variant at MTHFD1L gene could be an important prognostic factor for cardiovascular mortality in patients after ACS.
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