

MTHFS cDNA

Catalog Number: ATGD0265

PRODUCT INFORMATION

Catalog number

ATGD0265

Product type

cDNA

Species

Human

NCBI Accession No.

NP_006432.1

Alternative Names

HsT19268

mRNA Refseq

NM_006441.3

OMIM

604197

Chromosome location

15q25.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

612bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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MTHFS an enzyme that catalyzes the conversion of 5-formyltetrahydrofolate to 5, 10-methenyltetrahydrofolate, a precursor of reduced folates involved in 1-carbon metabolism. An increased activity of the encoded protein can result in an increased folate turnover rate and folate depletion. Three transcript variants encoding two different isoforms have been found for MTHFS.

DATA

Sequence nucleotides

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ATGGCGGGCGGCAGCGGTGAGCAGCGCCAAGCGGAGCCTGCGGGGAGAGCTGAAGCAGCGTCTGCGGGCGATGAGTGCC
GAGGAGCGGCTACGCCAGTCCCGCGTACTGAGCCAGAAGGTGATTGCCACAGTGAGTATCAAAAGTCCAAAAGAATTTCC
ATCTTTCTGAGCATGCAAGATGAAATTGAGACAGAAGAGATCATCAAGGACATTTTCCAACGAGGCAAAATCTGCTTCATCC
CTCGGTACCGGTTCCAGAGCAATCACATGGATATGGTGAGAATAGAATCACCAGAGGAAATTTCTTTACTTCCCAAAACATC
CTGGAATATCCCTCAGCCTGGTGAGGGTGATGTTCTGGGAGGAGGCCTTGTCACAGGGGGGACTTGATCTCATCTTCATGCC
AGGCCTTGGGTTTGACAAACATGGCAACCGACTGGGGAGGGGGCAAGGGCTACTATGATGCCTATCTGAAGCGCTGTTTGCA
GCATCAGGAAGTGAAGCCCTACACCCTGGCGTTGGCTTTCAAAGAACAGATTTGCCTCCAGGTCCCAGTGAATGAAAACGA
CATGAAGGTAGATGAAGTCCTTTACGAAGACTCGTCAACAGCTTAA
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Transaction Sequence

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MAAAVSSAK RSLRGELKQR LRAMSAEERL RQSRVLSQKV IAHSEYQKSK RISIFLSMQDEIETEEIHKD IFQRGKICFI
PRYRFQSNHM DMVRIESPEE ISLLPKTSWN IPQPGEGDVREEALSTGGLD LIFMPGLGFD KHGNRLGRGK GYYDAYLKRC
LQHQEVKPYT LALAFKEQICLQVPVNENDM KVDEVLYEDS STA
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