

Product datasheet for RC205749

MTHFS (NM_006441) Human Tagged ORF Clone

Product data:

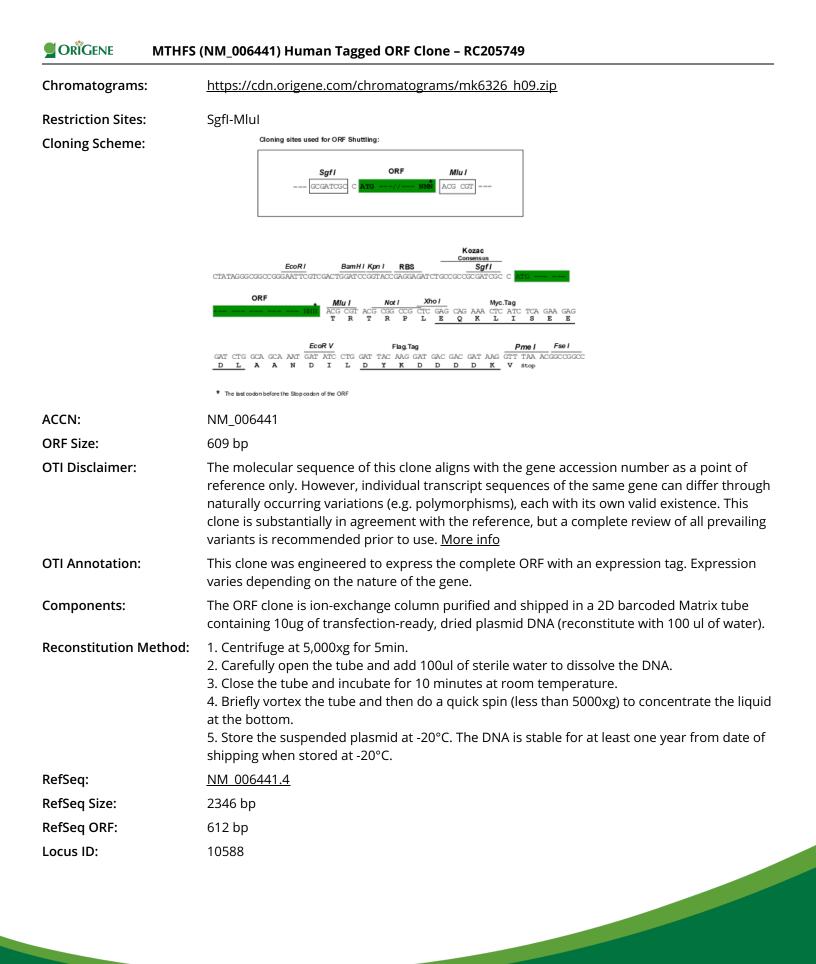
OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	MTHFS (NM_006441) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MTHFS
Synonyms:	HsT19268; NEDMEHM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC205749 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCGGCGGCAGCGGTAAGCGCCAAGCGTAGCCTGCGGGGAGAGCTGAAGCAGCGTCTGCGGGCGA TGAGTGCCGAGGAGCGGCTACGCCAGTCCCGCGTACTGAGCCAGAAGGTGATTGCCCACAGTGAGTATCA AAAGTCCAAAAGAATTTCCATCTTTCTGAGCATGCAAGATGAAATTGAGACAGAAGAGATCATCAAGGAC ATTTTCCAACGAGGCAAAATCTGCTTCATCCCTCGGTACCGGTTCCAGAGCAATCACATGGATATGGTGA GAATAGAATCACCAGAGGAAATTTCTTTACTTCCCAAAACATCCTGGAATATCCCTCAGCCTGGTGAGGG TGATGTTCGGGAGGAGGCCTTGTCCACAGGGGGACTTGATCTCATCTCATGCCAGGCCTTGGGTTTGAC AAACATGGCAACCGACTGGGGAGGGGCAAGGGCTACTATGATGCCTATCTGAAGCGCTGTTTGCAGCATC AGGAAGTGAAGCCCTACACCCTGGCGTTGGCTTTCAAAGAACAGATTTGCCTCCAGGTCCCAGTGAATGA AAACGACCGACTGAGAGGAGGCCATTGACTCTCAAAGAACAGATTTGCCTCCAGGTCCCAGTGAATGA AAACGACCGACTGAGAGGAGGCCTTTCAAAGAACAGATTTGCCTCCAGGTCCCAGTGAATGA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC205749 protein sequence Red=Cloning site Green=Tags(s)
	MAAAAVSSAKRSLRGELKQRLRAMSAEERLRQSRVLSQKVIAHSEYQKSKRISIFLSMQDEIETEEIIKD IFQRGKICFIPRYRFQSNHMDMVRIESPEEISLLPKTSWNIPQPGEGDVREEALSTGGLDLIFMPGLGFD KHGNRLGRGKGYYDAYLKRCLQHQEVKPYTLALAFKEQICLQVPVNENDMKVDEVLYEDSSTA
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



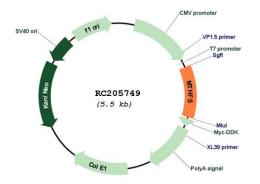
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	MTHFS (NM_006441) Human Tagged ORF Clone – RC205749
UniProt ID:	<u>P49914</u>
Cytogenetics:	15q25.1
Domains:	5-FTHF_cyc-lig
Protein Pathways	s: Metabolic pathways, One carbon pool by folate
MW:	23.3 kDa
Gene Summary:	The protein encoded by this gene is 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 this gene. [provided by RefSeq, Jun 2011]

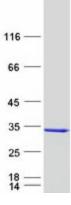
Product images:



158-106-79-48-35-23Circular map for RC205749

Western blot validation of overexpression lysate (Cat# [LY416629]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205749 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified MTHFS protein (Cat# [TP305749]). The protein was produced from HEK293T cells transfected with MTHFS cDNA clone (Cat# RC205749) using MegaTran 2.0 (Cat# [TT210002]).

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