

Product datasheet for **SC105031**

MTAP (AF109294) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTAP (AF109294) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTAP
Synonyms:	BDMF; c86fus; DMSFH; DMSMFH; HEL-249; LGMBF; MSAP
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AF109294, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTCTGGCACCACCACCACCGCCGTGAAGATTGGAATAATTGGTGGAACAGGCCTGGATGATCCAG
AAATTTTAGAAGGAAGAAGACTGAAAAATATGTGGATACTCCATTTGGCAAGCCATCTGATGCCTTAATTTT
GGGAAGATAAAAAATGTTGATTGCATCCTCCTTGCAAGGCATGGAAGGCAGCACACCATCATGCCTTCA
AAGGTCAACTACCAGGCGAACATCTGGGCTTTGAAGGAAGAGGGCTGTACACATGTCATAGTGACCACAG
CTTGTGGCTCCTTGAGGGAGGAGATTGAGCCCGCGATATTGTCATTATTGATCAGTTCATTGACAGGAC
TATTTGCCACGACATTTCAAAGGATTCCAAGAGAGAATATTGGTGTCCATGCTGTGATGATTCCTCAGCT
CCTCTCATCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for AF109294 unedited NNCCGTTCTCGAATTTTGTATACGTACTTCACTATAGGGCGGCCGGAATTCGCACCAGNAC CACCGCTCTGTGGCTCGCTTGGTTCCCTTAGTCCCGAGCGCTCGCCCACTGCAGATTCT TTCCCGTGCAGACATGGCCTCTGGCACCACCACCACCGCCGTGAAGGTGAGATGAGCCCT CCCAGCCGAGCGGTTCCGCCCTGCCGATGCCTTCTCGCCCCGCGCGGGGACCGCGC CTCCGGGGCCATGCGCCCGCCCGTGCCTCCCTTCCCGCCGCGGGGAGGACTGGGGCC CGGCACCTCGGACTCACTTGCCCGCGAGGAGAGGATTGGAATAATTGGTGAACAGGCC TGGATGATCCAGAAATTTTGAAGGAAGAACTGAAAAATATGTGGATACTCCATTTGGCA AGCCATCTGATGCCTTAATTTTGGGAAGATAAAAAATGTTGATTGCATCCTCCTTGCAA GGCATGGAAGGCAGCACACCATCATGCCTTCAAAGGTCAACTACCAGGCGAACATCTGGG CTTTGAAGGAAGAGGGTGTACACATGTCATAGTGACCACAGCTTGTGGCTCCTTGAGGG AGGAGATTGAGCCCGCGATATTGTCATTATTGATCAGTTCATTGACAGGACCACTATGA GACCTCAGTCTTCTATGATGGAAGTCATTCTTGTCCAGAGGAGTGTCCATATTCCAA TGGCTGAGCCGTTTTGCCCAAAACGAGAGAGGTTCTTATAGAGACTGCTAAGAAGCTAG GACTCCGGTGCCACTCAAAGGGACAATGGTCACCATCGAGGGACCTCGGTTTTAGCTCC CGGGCAGAAAGCTTCATGTTTCGCACCCCTGGGGCGGGATGTTATCAACTGGACCCATT CCAGG
Restriction Sites:	NotI-NotI
ACCN:	AF109294
Insert Size:	2000 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:	AF109294.1 , AAD19641.1
RefSeq Size:	942 bp
RefSeq ORF:	942 bp
Locus ID:	4507
Cytogenetics:	9p21.3
Domains:	Mtap_PNP
Protein Families:	Druggable Genome
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways

Gene Summary:

This gene encodes an enzyme that plays a major role in polyamine metabolism and is important for the salvage of both adenine and methionine. The encoded enzyme is deficient in many cancers because this gene and the tumor suppressor p16 gene are co-deleted. Multiple alternatively spliced transcript variants have been described for this gene, but their full-length natures remain unknown. [provided by RefSeq, Jul 2008]