

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002451 unedited ATTTGTATACGACTCACTATAGCGGCCGCGAATTCGGCACGAGGCCACCGCTCTGTGGC TCGCTTGGTTCCCTTAGTCCCAGCGCTCGCCACTGCAGATTCCTTTCCCGTGCAGACA TGGCCTCTGGCACCACCACCACCGCCGTGAAGATTGGAATAATTGGTGGAAACAGGCCTGG ATGATCCAGAAATTTTAGAAGGAAGAACTGAAAAATATGTGGATACTCCATTTGGCAAGC CATCTGATGCCTTAATTTTGGGGAAGATAAAAAATGTTGATTGCATCCTCCTTGAAGGC ATGGAAGGCAGCACACCATCATGCCTTCAAAGGTCAACTACCAGGCGAACATCTGGGCTT TGAAGGAAGAGGGCTGTACACATGTCATAGTGACCACAGCTTGTGGCTCCTTGAGGGAGG AGATTCAGCCCGCGATATTGTCATTATTGATCAGTTCATTGACAGGACCACTATGAGAC CTCAGTCTTCTATGATGGAAGTCATTCTTGTGCCAGAGGAGTGTCCATATTCCAATGG CTGAGCCGTTTTGCCCAAACGAGAGAGGTTCTTATAGAGACTGCTAAGAAGCTAGGAC TCCGGTGCCACTCAAAGGGGACAATGGTCACAATCGAGGGACCTCGTTTTAGCTCCCGGG CAGAAAGCTTCATGTTCCGCACCTGGGGGGCGGATGTTATCAACATGACCACAGTCCAG AAGTGGTCTTGCTAAGGACGCTGTAATTTGTTACGCAAGTATCGCCATGCCGACAGATT ATGACTGTGGCAAGAGCACCATGAAGCAGTTTCCGTGCACCCGGTCTTAAGACCTTGA AGCAAACGCTATAAAGCCAAAAGCTACTGCTCATACCATACCTCAGATAGGTCCCAGAAT GGTCAANAACCCTCCATACCTGGAGATATGCCCAGCTTTTGTCTTATACCAGCAATAAATG ACATGCTGCCCAGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002451 unedited CGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTCTAAATCCACTTTTATTTTTACAAC AACTTTACTATTTGATTATATTCAGTGTAGAAAAATGTGAAGACACAGAAAGATTCAAAG AAAATAAAAATTATCCCAGTATCCCTCCCCAAATACAATAACAAGTTATATATATTTT TTTCTAGTTTTTTGTATATTTACATAGCATTTTAAAGCAAAACTAGTACTATAAAATGC TACCATATCCTTTTTTCACTTATATATAGAGCAACCGTGTCTTTTTAGGACATTGAAAT ATGCAAAAAGGATTTTCAGTTGGCTGATTCACAATCTAATTATAACTAAGACATAATTTA CCTCCAATTGCAAGGGATTGAGATTGTTTCAATATTTATTATTATAACTATCATTATTA AACACCCTTCTTTATATAAATCTTTGTATGCATCTCTGATATGGTTTTAAAGAGAAAT TGCTAGATGTAGAGTCCCAGCACAAAGTACGTCCGATTTTTAAGTCTTTAGATGCATT TTACCAAATTGCCCTCCAGAAATACTGTACCAATTTACAGTCGCATCAATAAATAACCAA AGAGTCCCATTTCTTCCACATTTCTTTGGCAGTATAGGAAAGTAAAGATTACCCTCCAC CCTTTATTGTTGCAAATTTATAGGGGGAGAAGAGATTGGCGGGTTTTTTTTCCCTTAA ATGAATATTTTTTACCCATGTTACCAGCATTGGCTTTCTTCTGATTTTTGAAGTGCCAA TCATTCAAGAATCTTTATACACCAATGCATGTTCTTTACAAAATATCTTTGTAGCCAGG GCTTGAAGCTGATGTTTTCCATATTTTTCAGTTAACAGAATCCAATGATGGATTAATG CTCTTTTTTCCGGACACCAGCTTTTATTGCTTGCTAAAAAAAAGTGGCCTTTTTTCAGTT TGAAGTCTGACTACCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002451
Insert Size:	1950 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:	NM_002451.3 , NP_002442.2
RefSeq Size:	4937 bp
RefSeq ORF:	852 bp
Locus ID:	4507
UniProt ID:	Q13126
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]