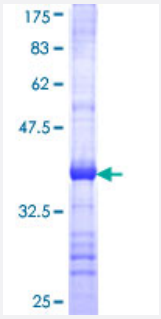
MTRR (Human) Recombinant Protein (Q01)

Catalog # H00004552-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MTRR partial ORF (NP_002445, 1 a.a. - 110 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MRRFLLLYATQQGQAKAIAEEMCEQAVVHGFSADLHCISESDKYDLKTETAPLVVVVSTTGTGDP PDTARKFVKEIQNQTLPVDFFAHLRYGLLGLGDSEYTYFCNGGKI
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (88); Rat (80)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MTRR

Entrez GeneID	4552
GeneBank Accession#	NM_002454
Protein Accession#	NP_002445
Gene Name	MTRR
Gene Alias	MGC129643, MSR
Gene Description	5-methyltetrahydrofolate-homocysteine methyltransferase reductase
Omim ID	236270 601634 602568
Gene Ontology	Hyperlink
Gene Summary	Methionine is an essential amino acid required for protein synthesis and one-carbon metabolism. Its synthesis is catalyzed by the enzyme methionine synthase. Methionine synthase eventually bec omes inactive due to the oxidation of its cob(I)alamin cofactor. The protein encoded by this gene r egenerates a functional methionine synthase via reductive methylation. It is a member of the ferre doxin-NADP(+) reductase (FNR) family of electron transferases. Patients of the cbl-E complemen tation group of disorders of folate/cobalamin metabolism are defective in reductive activation of m ethionine synthase. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq
Other Designations	[methionine synthase]-cobalamin methyltransferase (cob(II)alamin reducing)|methionine synthase reductase

Disease

- Abnormalities

- Abruptio Placentae
- Adenocarcinoma
- Adenoma
- Adrenoleukodystrophy
- Alcoholism
- Alzheimer disease
- Anemia
- Aortic Aneurysm
- Arthritis
- Atherosclerosis
- Autistic Disorder
- Avitaminosis
- Azoospermia
- Birth Weight
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Cerebrovascular Disorders
- Cervical Intraepithelial Neoplasia
- Choroidal Neovascularization
- Cleft Lip
- Cleft Palate

- Cognition
- Cognition Disorders
- Colitis
- Colorectal Neoplasms
- Congenital Abnormalities
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Data Display
- Demyelinating Diseases
- Diabetes Mellitus
- Diabetic Nephropathies
- Diabetic Retinopathy
- Diseases in Twins
- DNA Damage
- Down Syndrome
- Ductus Arteriosus
- Edema
- Epilepsy
- Esophageal Neoplasms
- Exfoliation Syndrome
- Fetal Growth Retardation
- Folic Acid Deficiency
- Genetic Predisposition to Disease
- Glaucoma
- Glioma

- Head and Neck Neoplasms
- Heart Defects
- Heart Septal Defects
- Hematologic Neoplasms
- Hepatitis B
- Heredodegenerative Disorders
- Huntington disease
- Hyperhomocysteinemia
- Hypertension
- Hypoplastic Left Heart Syndrome
- Infant
- Infertility
- Inflammatory Bowel Diseases
- Intelligence Tests
- Ischemia
- Kidney Failure
- Leukemia
- Liver Neoplasms
- Lung carcinoma
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Macular Degeneration
- Meningeal Neoplasms
- Meningioma
- Mental Status Schedule

- Metabolic Diseases
- Micronuclei
- Microsatellite Instability
- Multiple Myeloma
- Multiple Sclerosis
- Myocardial Ischemia
- Neoplasm Recurrence
- Neoplasms
- Neural Tube Defects
- Neuropsychological Tests
- Obesity
- Oligospermia
- Pancreatic cancer
- Pancreatic Neoplasms
- Parkinson disease
- Phenylketonuria
- Phenylketonurias
- Placental Insufficiency
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Pulmonary Disease

- Spinal Dysraphism
- Stomach Neoplasms
- Stroke
- Syndrome
- Thromboembolism
- Tooth Abnormalities
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Vascular Diseases
- Venous Thrombosis
- Vitamin B 12 Deficiency
- Vitamin B Deficiency
- Werner syndrome