

## Product datasheet for AR50961PU-S

## OriGene Technologies, Inc.

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## ATP synthase subunit gamma (26-298, His-tag) Human Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** ATP synthase subunit gamma (26-298, His-tag) human protein, 0.1 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** MGSSHHHHHH SSGLVPRGSH MGSATLKDIT RRLKSIKNIQ KITKSMKMVA AAKYARAERE

or AA Sequence: LKPARIYGLG SLALYEKADI KGPEDKKKHL LIGVSSDRGL CGAIHSSIAK QMKSEVATLT AAGKEVMLVG

IGDKIRGILY RTHSDQFLVA FKEVGRKPPT FGDASVIALE LLNSGYEFDE GSIIFNKFRS VISYKTEEKP

IFSLNTVASA DSMSIYDDID ADVLQNYQEY NLANIIYYSL KESTTSEQSA RMTAMDNASK

NASEMIDKLT LTFNRTRQAV ITKELIEIIS GAAALD

Tag: His-tag
Predicted MW: 32.6 kDa
Concentration: lot specific

Purity: >90% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

**Preparation:** Liquid purified protein

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid

repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 001001973

Locus ID: 509

UniProt ID: <u>P36542</u>, <u>Q8TAS0</u>

Cytogenetics: 10p14

Synonyms: ATP5C; ATP5C1; ATP5CL1





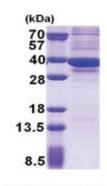
**Summary:** 

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multisubunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the gamma subunit of the catalytic core. Alternatively spliced transcript variants encoding different isoforms have been identified. This gene also has a pseudogene on chromosome 14. [provided by RefSeq, Jul 2008]

**Protein Pathways:** 

Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

## **Product images:**



15% SDS-PAGE (3ug)