

Recombinant Human Tyrosyl-tRNA Synthetase 2, Mitochondrial, His-tagged

Cat. No. YARS2-6783H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanYARS2 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography
Species	Human
Source	E.coli
Description	YARS2, also known astyrosyl-tRNA synthetase, catalyzes the attachment of tyrosine to tRNA(Tyr) ina two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP andthen transferred to the acceptor end of tRNA(Tyr)
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT
Molecular Weight	53.7 kDa (482aa)
Purity	> 85% by SDS -PAGE
Concentration	0.25 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MTLNLSVLLP LGLRKAHSGA QGLLAAQKAR GLFKDFFPET GTKIELPELF DRGTASFPQTIYCGFDPTAD SLHVGHLLAL LGLFHLQRAG HNVIALVGGA TARLGDPSSGR TKEREALETE RVRANARALRLGLEALAAANH QQLFTDGRSW GSFTVLDNSA WYQKQHLVDF LAAVGGHFRM GTLLSRQSVQ LRLKSPEGMSLAEFFYQVLQ AYDFYYLFQR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YGCRVQLGGS DQLGNIMSGY EFINKLTGED VFGITVPLIT
 STTGAKLGKSAGNAVWLNRD KTSPFELYQF FVRQPDDSVE RYLKLTFLP
 LPEIDHIMQL HVKEPERRGP QKRLAAEVTKLVHGREGLDS AKRCTQALYH
 SSIDALEVMS DQELKELFKE APFSEFFLDP GTSVLDTCRK
 ANAIPDGPRGYRMITEGGVS INHQQVTNPE SVLIVGQHIL KNGLSLLKIG
 KRNFYIIKWL QL

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

YARS2 tyrosyl-tRNA synthetase 2, mitochondrial [Homo sapiens]

Official Symbol

YARS2

Synonyms

YARS2; tyrosyl-tRNA synthetase 2, mitochondrial; tyrosyl-tRNA synthetase, mitochondrial; CGI 04; FLJ13995; mtTyrRS; tyrosine tRNA ligase 2; mitochondrial; CGI 04; FLJ13995; mt TyrRS; Tyrosine tRNA ligase; Tyrosyl tRNA synthetase 2, mitochondrial; TYRRS; YARS2; tyrosine tRNA ligase 2, mitochondrial; TYRRS; CGI-04; MLASA2; MT-TYRRS

Gene ID

51067

mRNA Refseq

NM_001040436

Protein Refseq

NP_001035526

MIM

610957

Uniprot ID

Q9Y2Z4

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Chromosome Location	12p11.21
Pathway	Aminoacyl-tRNA biosynthesis,organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conservedbiosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specificbiosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; GeneExpression, organism-specific biosystem
Function	ATP binding; ligase activity;nucleotide binding; protein homodimerization activity; tRNA binding

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