

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

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YGCRVQLGGS DQLGNIMSGY EFINKLTGED VFGITVPLIT
 STTGAKLGKSAGNAVWLNRD KTSPFELYQF FVRQPDDSVE RYLKLFTFLP
 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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