

Product datasheet for **TP304590L**

Tyrosyl tRNA synthetase (YARS) (NM_003680) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human tyrosyl-tRNA synthetase (YARS), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC204590 protein sequence
Red=Cloning site **Green**=Tags(s)

MGDAPSPEEKHLITRNLQEVLGEEKLKEILKERELKIYWGTTATTGKPHVAYFVPMISKIADFLKAGCEVT
ILFADLHAYLDNMKAPWELLELRVSYENVIKAMLESIGVPLEKLFKIKGTDYQLSKEYTLDVYRLSSVV
TQHDSKKAGAEVVKQVEHPLLSGLLYPGLQALDEEYLKVDAQFGGIDQRKIFTFAEKYLPALGYSKRVHL
MNPMPGLTGSKMSSSEESKIDLLDRKEDVKKLKKAFCEPGNVENNGVLSFIKHVLFPLKSEFVILRD
EKWGGNKTYTAYVDLEKDFAAEVVHPGDLKNSVEVALNKLLDPIREKFNTPALKKLASAAYDPSPKQKPM
AKGPAKNSEPEEVIPSRDIRVKGKIIIVKHPDADSLYVEKIDVGEAEPRTVWSGLVQFVPKEELQDRLV
VVLNLPQKMRGVESQGMLLCASIEGINRQVEPLDPPAGSAPGEHVFKGYEKQPDEELKPKKKVFEK
LQADFKISEECIAQWKQTNFMTKLSISCKSLKGGNIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 59 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_003671](#)

Locus ID: 8565

UniProt ID: [P54577](#), [A0A0S2Z4R1](#)

RefSeq Size: 3117

Cytogenetics: 1p35.1

RefSeq ORF: 1584

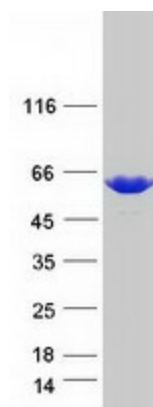
Synonyms: CMTDIC; TYRRS; YARS; YRS; YTS

Summary: Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Tyrosyl-tRNA synthetase belongs to the class I tRNA synthetase family. Cytokine activities have also been observed for the human tyrosyl-tRNA synthetase, after it is split into two parts, an N-terminal fragment that harbors the catalytic site and a C-terminal fragment found only in the mammalian enzyme. The N-terminal fragment is an interleukin-8-like cytokine, whereas the released C-terminal fragment is an EMAP II-like cytokine. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Aminoacyl-tRNA biosynthesis

Product images:



Coomassie blue staining of purified YARS protein (Cat# [TP304590]). The protein was produced from HEK293T cells transfected with YARS cDNA clone (Cat# [RC204590]) using MegaTran 2.0 (Cat# [TT210002]).