

## 32-2932: YARS2 Recombinant Protein

**Alternative Name :** Tyrosine--tRNA ligase mitochondrial, Tyrosyl-tRNA synthetase, TyrRS, YARS2, CGI-04, TYRRS, MLASA2, MT-TYRRS.

### Description

Source : Escherichia Coli. YARS2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 482 amino acids (17-477 a.a.) and having a molecular mass of 53.7kDa. YARS2 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Tyrosyl-tRNA synthetase (YARS2) is a mitochondrial protein which catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and afterward transferred to the acceptor end of tRNA(Tyr). YARS2 gene mutations are linked with myopathy with lactic acidosis and sideroblastic anemia type 2 (MLASA2).

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 85.0% as determined by SDS-PAGE.  
**Content :** YARS2 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MTLNLSVLLP LGLRKAHSGA QGLLAAQKAR GLFKDFFPET GTKIPELPEL DRGTASFPQT IYCGFDPTAD SLHVGHLAL LGLFHLQRAG HNVIALVGGA TARLGDPSGR TKEREALETE RVRANARALR LGLEALAAH QQLFTDGRSW GSFTVLDNSA WYQKQHLVDF LAAVGGHFRM GTLLSRQSVQ LRLKSPEGMS LAEFFYQVLQ AYDFYLLFQR YGCRVQLGGS DQLGNIMSGY EFINKLTGED VFGITVPLIT STTGAKLGKS AGNAVWLNDR KTSPFELYQF FVRQPDDVE RYLKLFITFLP LPEIDHIMQL HVKEPERRGP QKRLAAEVTK LVHGREGLDS AKRCTQALYH SSIDALEVMS DQELKELFKE APFSEFFLDP GTSVLDTCRK ANAIPDGPRG YRMITEGGVS INHQVVTNPE SVLIVGQHIL KNGLSLLKIG KRNFYIWKWL QL.