

## Product datasheet

# Recombinant Human Tyrosyl tRNA synthetase/TyrRS protein ab107141

[1 Image](#)

### Description

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<b>Product name</b>	Recombinant Human Tyrosyl tRNA synthetase/TyrRS protein
<b>Purity</b>	> 90 % SDS-PAGE. ab107141 is purified using conventional chromatography techniques.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<u><a href="#">P54577</a></u>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	

**MGSSHHHHHSSGLVPRGSHMGDAPSPEEKLHLITRNL**  
QEVLGEEKLKEI  
LKERELKIWGTATTGKPHVAYFVPMSKIADFLKAGCEVTI  
LFADLHAYL  
DNMKAPWELLELRVSYENVIKAMLESIGVPLEKLFKIKGT  
DYQLSKEYT  
LDVYRLSSVVTQHDSKKAGAEVVKQVEHPLL SGLLYPGL  
QALDEEYLKVD  
AQFGGIDQRKIFTFAEKYLPALGYSKRVHLMNPMVPGLTG  
SKMSSSEES  
KIDLLDRKEDVKKLKKAFCEPGNVENNGVLSFIKHVLF  
LKSEFVILRD  
EKWGGNKTYTAYVDLEKDFAAEVVHPGDLKNSVEVALNK  
LLDPIREKFNT  
PALKKLASAAYDPSPKQKPMAGPAKNSEPEEVIPSRDLI  
RVGKIITVEK  
HPDADSLYVEKIDVGEAEPRTVV SGLVQFVPKEELQDRL  
VVVLCNLKPQK  
MRGVESQGMLLCASIEGINRQVEPLDPPAGSAPGEHV FV  
KGYEKGQPDEE  
LKPKKKVFEKIQADFKISEECIAQWKQTNFM TKLGSISCK  
SLKGGNIS

**Predicted molecular weight** 61 kDa including tags

<b>Amino acids</b>	1 to 528
<b>Tags</b>	His tag N-Terminus

## Specifications

Our **Abpromise guarantee** covers the use of **ab107141** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Mass spectrometry</b>	MALDI-TOF
<b>Form</b>	Liquid
<b>Additional notes</b>	Previously labelled as Tyrosyl tRNA synthetase

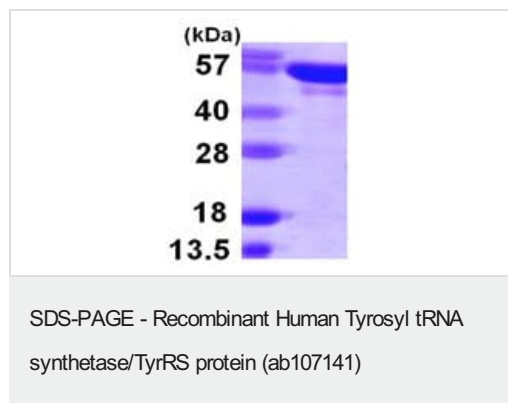
## Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.  pH: 8.00 Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride
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## General Info

<b>Function</b>	Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr).
<b>Involvement in disease</b>	Defects in YARS are the cause of Charcot-Marie-Tooth disease dominant intermediate type C (CMTDIC) [MIM:608323]. CMTDIC is a form of Charcot-Marie-Tooth disease characterized by clinical and pathologic features intermediate between demyelinating and axonal peripheral neuropathies, and motor median nerve conduction velocities ranging from 25 to 45 m/sec.
<b>Sequence similarities</b>	Belongs to the class-I aminoacyl-tRNA synthetase family. Contains 1 tRNA-binding domain.
<b>Cellular localization</b>	Cytoplasm.

## Images



15% SDS-PAGE showing ab107141 (3 µg) at approximately 61.3 kDa.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We provide support in Chinese, English, French, German, Japanese and Spanish
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