

## Product datasheet for PH317559

### Glutamyl Prolyl tRNA synthetase (EPRS) (NM\_004446) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	EPRS MS Standard C13 and N15-labeled recombinant protein (NP_004437)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217559
Predicted MW:	170.4 kDa
Protein Sequence:	>RC217559 representing NM_004446 Red=Cloning site Green=Tags(s)

MATLSLTVNSGDPPLGALLAVEHVKDDVSIISVEEGKENILHVSENVIFTDVNSILRYLARVATTAGLYGS  
 NLMEHTEIDHWLEFSATKLSSCDSFTSTINELNHCLSLRITYLVGNLSLADLCVWATLKGNAAWQEQLKQ  
 KKAPVHVKRWFGFLEAQQAFQSVGKWDVSTTKARVAPEKKQDVGKVELPGAEMGKVTVRFPEASGYL  
 HIGHAKAALLNQHYQVNFKGLIMRFDNPEKEKEDFEKVILEDVAMLHIKPDQFTYTSDFHETIMKYA  
 EKLIQEGKAYVDDTPAEQMKAREQRIDSKHRKNPIEKNLQMWEEMKKGSGFGQSCCLRAKIDMSSNNGC  
 MRDPTLYRCKIQPHPRGTGNKYVYPTDYDFACPIVDSIEGVTHALRTTEYHDRDEQFYWIIIEALGIRKPYI  
 WEYSRLNLNNTVL SKRKL TWFVNEGLVDGWDDPRFPTVRGVLRRGMTVEGLKQFIAAQGSSRSVNMEDW  
 KIWAFNKKVIDPVAPRYVALLKKEVIPVNVPEAQEEMKEVAKHPKNPEVGLKPVWYSPKVFIEGADAETF  
 SEGEMVTFINWGNLNITKIHKNADGKIIISLDAKLNLENKYKTKTKVTWLAETTHALPIPVCVITYEHLI  
 TKPVLGKDEDFKQYVKNKSKHEELMLGDPCLKDLKKGDI IQLQRRGFFICDQPYEPVSPYSCKEAPCVLI  
 YIPDGHTKEMPTSGSKEKTKVEATKNETSAPFKERPTPSLNNNCTTSEDSLVLNVRVAVQGDVVRELKAK  
 KAPKEDVDAAVKQLLSLKAQYKEKTGQYKPGNPPAEIGQNISSNSSASILESKSLYDEVAQAQGEVVRKL  
 KAEKSPKAKINEAVECLLSLKAQYKEKTGKEYIPGQPPLSQSSDSSPTRNSEPAGLETPEAKVLFKVAS  
 QGEVVRKLTKEKAPKQVDIAVQELLQLKAQYKSLIGVEYKPVSATGAEDKDKKKKEKENKSEKQNKPKQ  
 QNDGQRKDP SKNQGGGLSSSGAGEGQPKKQTRLGLEAKKEENLADWYSQVITKSEMIYHDISGCYILR  
 PWAYAIWEAIKDFDAEIKKLGVENCYFPMFVSQSALEKEKTHVADFPEVAWVTRSGKTELAEP IAIRP  
 TSETVMYPAYAKWVQSHRDLPIKLNQWCNVVRWEFKHPQFLRTRREFLWQEGHSAFATMEEAAEEVLQIL  
 DLYAQVYEEELLAI PVVKGGRKTEKEKFAAGDYTTTIEAFISASGRAIQGGTSHHLGQNF SKMFEIVFEDPK  
 IPGEKQFAYQNSWGLTTRTIGVMTMVHGDNMGLVPPRVACVQVVIIPCGITNALSEEDKEALIAKCNDY  
 RRRLLSVNIRVRADLRDNYSPGWKFNHWELKGVPIRLEVGPRDMKSCQFVAVRRDTGEKLTVAENEAEK  
 LQAILEDIQVTLFTRASEDLKTHMVVANTMEDFQKILDSGKIVQIPFCGEIDCEDWIKKTARDQDLEPG  
 APSMGAKSLCIPFKPLCELQPGAKCVCGKNPAKYTYLFGRSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

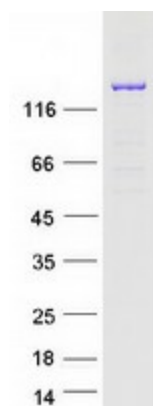
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004437</a>
RefSeq Size:	5021
RefSeq ORF:	4536
Synonyms:	EARS; EPRS; GLUPRORS; HLD15; PARS; PIG32; QARS; QPRS
Locus ID:	2058
UniProt ID:	<a href="#">P07814</a>
Cytogenetics:	1q41
Summary:	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is a multifunctional aminoacyl-tRNA synthetase that catalyzes the aminoacylation of glutamic acid and proline tRNA species. Alternative splicing has been observed for this gene, but the full-length nature and biological validity of the variant have not been determined. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Metabolic pathways, Porphyrin and chlorophyll metabolism

### Product images:



Coomassie blue staining of purified EPRS protein (Cat# [TP317559]). The protein was produced from HEK293T cells transfected with EPRS cDNA clone (Cat# [RC217559]) using MegaTran 2.0 (Cat# [TT210002]).