

Recombinant Human EPRS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EPRS-2208H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EPRS MS Standard C13 and N15-labeled recombinant protein (NP_004437) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	170.4 kDa
AA Sequence	MATLSLTVNSGDPPLGALLAVEHVKDDVSISVEEGKENILHVSENVIFTDVNSILRYLA RVATTAGLYGSNLMHEIDHWLEFSATKLSSCDSFTSTINELNHCLSLRITYLVGNSL SLADLCVWATLKGNAAWQEQLKQKKAPVHVKRWFGFLEAQQAQFQSVGKTKWDVST TKARVAPEKKQDVGKFLVPGAEMGKVTVRFPPEASGYLHIGHAKAALLNQHYQVN FKGKLIMRFDDTNPEKEKEDFEKVILEDVAMHLHKPDQFTYTSDFHETIMKYAEKLIQE GKAYVDDTPAEQMKAEREQRIDSKHRKNPIEKNLQMWEEMKKGSQFGQSCCLRAK IDMSSNNGCMRDPTLYRCKIQPHPRGTGNKYNVYPTYDFACPIVDSIEGVTHALRTTE YHDRDEQFYWIIALGIRKPYIWEYSRLNLNNTVLSKRKLTWTFVNEGLVDGWDDPRF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PTVRGVLRRGMTVEGLKQFIAAQGSSRSVVNMEWDKIWAFNKKVIDPVAPRYVALL
 KKEVIPVNVPEAQEEMKEVAKHPKNPEVGLKPVWYSPKVFIEGADAETFSEGEMVT
 FINWGNLKITIHKKNADGKIISLDAKLNLENKDYKKTTKVTWLAETTHALPIPVICVITYE
 HLITKPVLGKDEDFKQYVNKNSKHEELMLGDPCLKDLKKGDIIQLQRRGFFICDQPYE
 PVSPYSCKEAPCVLIYIPDGHTKEMPTSGSKEKTKVEATKNETSAPFKERPTPSLNN
 NCTTSEDSLVLYNRVAVQGDVVRELKAKKAPKEDVDAAVKQLLSLKAEYKEKTGQE
 YKPGNPPAEIGQNISSNSSASILESKSLYDEVAAQGEVVRKLKAEKSPKAKINEAVEC
 LLSLKAQYKEKTGKEYIPGPPLSQSSDSSPTRNSEPAGLETPEAKVLFDKVASQGE
 VVRKLKTEKAPKDQVDIAVQELLQLKAQYKSLIGVEYKPVSATGAEDKDKKKKEKEN
 KSEKQNKPKQKQNDGQRKDPSKNQGGGLSSSGAGEGQGPKKQTRLGLEAKKEENL
 ADWYSQVITKSEMIEYHDISGCYILRPWAYAIWEAIKDFFDAEIKKLGVENCYFPMFV
 SQSALEKEKTHVADFAPEVAWVTRSGKTELAEPPIAIRPTSETVMYPAYAKWVQSHR
 DLPIKLNQWCNVVRWEFKHPQPFLRTREFLWQEGHSAFATMEEAAEEVLQILDLYA
 QVYEELLAIPVVKGRKTEKEKFAGGDYTTTIEAFISASGRAIQGGTSHHLGQNFSKMF
 EIVFEDPKIPGEKQFAYQNSWGLTTRTIGVMTMVHGDNMGLVLPPRVACVQVVIIPC
 GITNALSEEDKEALIAKCNDYRRRLSVNIRVRADLRDNYS PGWKFNHWELKGVPIR
 LEVGPRDMKSCQFVAVRRDTGEKLTVAENEAEATKLQAILEDIQVTLFTRASEDLKTH
 MVVANTMEDFQKILDSGKIVQIPFCGEIDCEDWIKKTTARDQDLEPGAPSMGAKSLCI
 PFKPLCELQPGAKCVCCKNPAKYTYTLFGRSYTRTRPLEQKLISEEDLAANDILDYKD
 DDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA

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Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name EPRS glutamyl-prolyl-tRNA synthetase [Homo sapiens (human)]

Official Symbol EPRS

Synonyms EPRS; glutamyl-prolyl-tRNA synthetase; QARS, QPRS; bifunctional glutamate/proline--tRNA ligase; EARS; GLUPRORS; glutamate tRNA ligase; PARS; proline tRNA ligase; proline-tRNA ligase; prolyl-tRNA synthetase; glutaminyl-tRNA synthetase; proliferation-inducing protein 32; bifunctional aminoacyl-tRNA synthetase; proliferation-inducing gene 32 protein; cell proliferation-inducing gene 32 protein; QARS; QPRS; PIG32; DKFZp313B047;

Gene ID 2058

mRNA Refseq NM_004446

Protein Refseq NP_004437

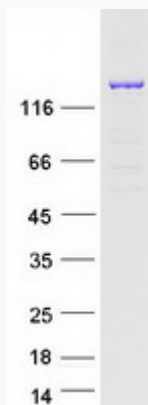
MIM 138295

UniProt ID P07814

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SDS-PAGE

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