

Product datasheet for **TP312911**

Isoleucyl tRNA synthetase (IARS) (NM_002161) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human isoleucyl-tRNA synthetase (IARS), transcript variant short, full-length, with C-terminal Myc-DDK tag, expressed in HEK293T cells, 20ug
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212911 representing NM_002161 Red =Cloning site Green =Tags(s)

MLQQVPENINFPAEEEEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTR
YAHQSGFHVDRRFGWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGR
WIDFDNDYKTLYPQFMESVWWWFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVQDPSVVF
TF
PLEEDETSLVAWTTTPWTLPSNLAVCVNPEMQYVKIKDVARGRLILMEARLSALYKLESDYEILERFP
GAYLKGKKYRPLFDYFLKCKENGAFVLDVNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNIRKDSLPC
PVDASGCFTTEVTDFAQYVKDADKSIIRTLKEQGRLLVATTFTHSYPCWRSPTLIYKAVPSWVFRVE
NMVDQLLRNNDLCYWVPELVREKRFGNWLKDARDWTISRNRWGTPIPLWVSDDFEFVVCIGSVAELEE
L
SGAKISDLHRESVDHLTIPSRGKGS�HRISEVFDCWFESGSMPIYAQVHYPFENKREFEDAFPADFIAEG
IDQTRGWFYTLVLALFGQPPFKNVIVNGLVLASDGQKMSKRKNYPDPVSIIQKYGADALRLYLINS
PVVRAENLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLRQLKEEEIEFLYNENTVRESPNITDRWLSFM
QSLIGFFETEMAAAYRLYTVPRLVKFVDILTNYVVRMNRRLKGENGMEDCVMALETLSVLLSLCRLIA
PYTPFLTELMYQNLKVLIDPVSVQDKDTLSIHYLMPLRVREELIDKKTESAVSQMQSVIELGRVIRDRT
IPIKYPLKEIVVIHQDPEALKDIKSLEKYIIEELNVRKVTLSTDKNKYGIRLRAEPDHMVLGKRLKGAFK
AVMTSIKQLSSEELQFQKTGTIVVEGHELHDEDIRLMYTFDQATGGTAQFEAHSDAQAQVLLDVTPDQS
MVDEGMAREVINRIQKLKKNLVPTDEITVYKAKSEGTYLNSVIESHTEFITTIKAPLKPYPVSPSD
KVLIQEKTLKGSELEITLARGSSLPACAYVNLNICANGSEQGGVLLLENPKGDNRLDLLKLSVTS
IFGVKNTLAVFHDETEIQNQTDLLSLSGKTLCTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGT
VGTLLLENPLGQNGLTHQGGLLYEAAKVFLRSRKLKFLNETQTQEITEDIPVKTLNMKTVYVSVLPPTA
DF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

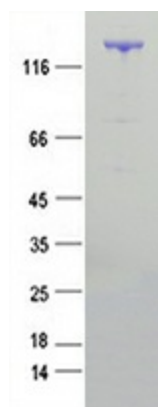
Tag: C-Myc/DDK



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Predicted MW:	144.3 kDa
Concentration:	>50 ug/mL as determined by Microplate Bradford Protein Assay method
Purity:	> 85% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, 250 mM NaCl and 10% glycerol, pH 7.3
Stability:	Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002152
Locus ID:	3376
UniProt ID:	P41252 , Q7L4K8 , Q6P0M4
RefSeq Size:	4335
Cytogenetics:	9q22.31
RefSeq ORF:	3786
Synonyms:	GRIDHH; IARS; ILERS; ILRS; IRS; PRO0785
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. Isoleucine-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family and has been identified as a target of autoantibodies in the autoimmune disease polymyositis/dermatomyositis. Alternatively spliced transcript variants have been found. [provided by RefSeq, Nov 2012]
Protein Families:	Druggable Genome
Protein Pathways:	Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis

Product images:



Coomassie blue staining of purified IARS protein (Cat #TP312911). The protein was produced from mammalian cells transfected with IARS cDNA clone (Cat #[RC212911]).