

RPD004Hu01 2mg Recombinant Isoleucyl tRNA Synthetase (IARS) Organism Species: *Homo sapiens (Human) Instruction manual* 

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

# Coud-Clone Corp.

## [PROPERTIES]

Source: Prokaryotic expression Host: E.coli Residues: Met1~Arg500 Tags: N-terminal His Tag Subcellular Location: Cytoplasm **Purity:** > 80% Traits: Freeze-dried powder **Buffer formulation:** PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose. Original Concentration: 600µg/mL Applications: Positive Control; Immunogen; SDS-PAGE; WB. (May be suitable for use in other assays to be determined by the end user.) Predicted isoelectric point: 5.6 Predicted Molecular Mass: 61.7KDa Accurate Molecular Mass: 66kDa as determined by SDS-PAGE reducing conditions. Phenomenon explanation: The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc. [<u>USAGE</u>]

Reconstitute in  $ddH_2O$  to a concentration of 0.1-1.0 mg/mL. Do not vortex.

#### [ STORAGE AND STABILITY ]

Storage: Avoid repeated freeze/thaw cycles.



Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined

by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no

obvious degradation and precipitation were observed. The loss rate is less than 5% within the

expiration date under appropriate storage condition.

#### [SEQUENCE]

```
MLQQVPENIN FPAEEEKILE FWTEFNCFQE CLKQSKHKPK FTFYDGPPFA
TGLPHYGHIL AGTIKDIVTR YAHQSGFHVD RRFGWDCHGL PVEYEIDKTL
GIRGPEDVAK MGITEYNNQC RAIVMRYSAE WKSTVSRLGR WIDFDNDYKT
LYPQFMESVW WVFKQLYDKG LVYRGVKVMP FSTACNTPLS NFESHQNYKD
VQDPSVFVTF PLEEDETVSL VAWTTTPWTL PSNLAVCVNP EMQYVKIKDV
ARGRLLILME ARLSALYKLE SDYEILERFP GAYLKGKKYR PLFDYFLKCK
ENGAFTVLVD NYVKEEEGTG VVHQAPYFGA EDYRVCMDFN IIRKDSLPVC
PVDASGCFTT EVTDFAGQYV KDADKSIIRT LKEQGRLLVA TTFTHSYPFC
WRSDTPLIYK AVPSWFVRVE NMVDQLLRNN DLCYWVPELV REKRFGNWLK
DARDWTISRN RYWGTPIPLW VSDDFEEVVC IGSVAELEEL SGAKISDLHR
```

## [IDENTIFICATION]

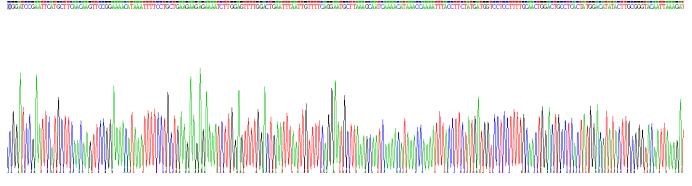


Figure . Gene Sequencing (extract)



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Figure. SDS-PAGE

# [<u>IMPORTANT NOTE</u>]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.