

RPC114Mu01 10µg Recombinant Growth Differentiation Factor 10 (GDF10) Organism Species: *Mus musculus (Mouse) Instruction manual* 

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

# Coud-Clone Corp.

## [PROPERTIES]

Source: Prokaryotic expression Host: E.coli Residues: Lys339~Arg477 Tags: N-terminal His Tag Subcellular Location: Secreted **Purity:** > 97% Traits: Freeze-dried powder Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose . Original Concentration: 200µg/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: 8.5 Predicted Molecular Mass: 19.4kDa Accurate Molecular Mass: 11kDa 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 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## Cond-Clone Corp.

### [ 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.

#### [ <u>SEQUENCE</u> ]

KK DQDTFTAASS QVLDFDEKTM QKARRRQWDE PRVCSRRYLK VDFADIGWNE WIISPKSFDA YYCAGACEFP MPKIVRPSNH ATIQSIVRAV GIVPGIPEPC CVPDKMNSLG VLFLDENRNA VLKVYPNMSV ETCACR

#### [IDENTIFICATION]

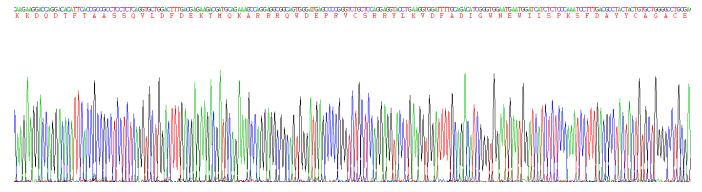


Figure. Gene Sequencing (Extract)

kDa 70
44
33
26
22
18
14
10

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.