

RPC110Ra01 10µg Recombinant Growth Differentiation Factor 5 (GDF5) Organism Species: *Rattus norvegicus (Rat) 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: Gln358~Arg495 Tags: N-terminal His Tag Subcellular Location: Membrane, Secreted **Purity:** > 95% Traits: Freeze-dried powder Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose. Original Concentration: 100µg/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: 8.1 Predicted Molecular Mass: 22.7kDa Accurate Molecular Mass: 26kDa 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.

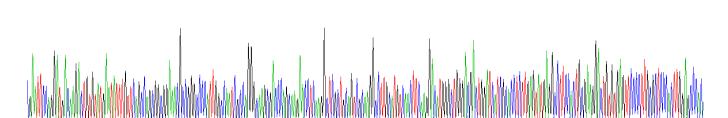
Aliquot and store at -80°C for 12 months.

**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.

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

QDD KTVYEYLFSQ RRKRRAPLAN RQGKRPSKNL KARCSRKALH VNFKDMGWDD WIIAPLEYEA FHCEGLCEFP LRSHLEPTNH AVIQTLMNSM DPESTPPTCC VPTRLSPISI LFIDSANNVV YKQYEDMVVE SCGCR

# [IDENTIFICATION]



#### Figure . Gene Sequencing (extract)

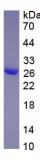


Figure. SDS-PAGE

## [IMPORTANT NOTE]



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.