

# **Product datasheet for TP303708L**

### OriGene Technologies, Inc.

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## Reticulocalbin 3 (RCN3) (NM\_020650) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human reticulocalbin 3, EF-hand calcium binding domain (RCN3), 1 mg

Species: Human Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC203708 protein sequence Red=Cloning site Green=Tags(s)

MMWRPSVLLLLLLRHGAQGKPSPDAGPHGQGRVHQAAPLSDAPHDDAHGNFQYDHEAFLGREVAKEFDQ LTPEESQARLGRIVDRMDRAGDGDGWVSLAELRAWIAHTQQRHIRDSVSAAWDTYDTDRDGRVGWEELRN ATYGHYAPGEEFHDVEDAETYKKMLARDERRFRVADQDGDSMATREELTAFLHPEEFPHMRDIVIAETLE DLDRNKDGYVQVEEYIADLYSAEPGEEEPAWVQTERQQFRDFRDLNKDGHLDGSEVGHWVLPPAQDQPLV

EANHLLHESDTDKDGRLSKAEILGNWNMFVGSQATNYGEDLTRHHDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 35.2 kDa

**Concentration:** >0.05 μg/μL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling

conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** NP 065701

**Locus ID:** 57333



Synonyms:

#### Reticulocalbin 3 (RCN3) (NM\_020650) Human Recombinant Protein - TP303708L

UniProt ID: Q96D15

RefSeq Size: 1882

Cytogenetics: 19q13.33

RLP49

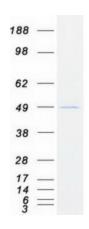
RefSeq ORF: 984

Summary: Probable molecular chaperone assisting protein biosynthesis and transport in the endoplasmic

reticulum (PubMed:16433634, PubMed:28939891). Required for the proper biosynthesis and transport of pulmonary surfactant-associated protein A/SP-A, pulmonary surfactant-associated protein D/SP-D and the lipid transporter ABCA3 (By similarity). By regulating both the proper expression and the degradation through the endoplasmic reticulum-associated protein degradation pathway of these proteins plays a crucial role in pulmonary surfactant homeostasis (By similarity). Has an anti-fibrotic activity by negatively regulating the secretion of type I and type

III collagens (PubMed:28939891). This calcium-binding protein also transiently associates with immature PCSK6 and regulates its secretion (PubMed:16433634).[UniProtKB/Swiss-Prot Function]

## **Product images:**



Coomassie blue staining of purified RCN3 protein (Cat# [TP303708]). The protein was produced from HEK293T cells transfected with RCN3 cDNA clone (Cat# [RC203708]) using MegaTran 2.0 (Cat# [TT210002]).