

Product datasheet for **SC128149**

Reticulocalbin 3 (RCN3) (NM_020650) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Reticulocalbin 3 (RCN3) (NM_020650) Human Untagged Clone
Tag:	Tag Free
Symbol:	Reticulocalbin 3
Synonyms:	RLP49
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020650, the custom clone sequence may differ by one or more nucleotides

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ATGATGTGGCGACCATCAGTTCTGCTGCTTCTGTTGCTACTGAGGCACGGGGCCCAGGGGAAGCCATCCC  
CAGACGCAGGCCCTCATGGCCAGGGGAGGGTGCACCAGGCGGCCCCCTGAGCGACGCTCCCATGATGA  
CGCCACGGGAACCTCCAGTACGACCATGAGGCTTTCCTGGGACGGGAAGTGGCCAAGGAATTCGACCAA  
CTACCCACAGAGAAAGCCAGGCCCGTCTGGGGCGGATCGTGACCGCATGGACCGCGGGGGACGGCG  
ACGGCTGGGTGTCGCTGGCCGAGCTTCGCGCTGGATCGCGCACACGCAGCAGCGGCACATACGGGACTC  
GGTGAGCGCGGCCTGGGACACGTACGACACGGACCGCGACGGGCGTGTGGTTGGGAGGAGCTGCGCAAC  
GCCACCTATGGCCACTACGCGCCCGGTGAAGAATTCATGACGTGGAGGATGCAGAGACCTACAAAAGA  
TGCTGGCTCGGGACGAGCGGCGTTTCCGGGTGGCCGACCAGGATGGGGACTCGATGGCCACTCGAGAGGA  
GCTGACAGCCTTCTGCACCCCGAGGAGTTCCTCACATGCGGGACATCGTGATTGCTGAAACCCTGGAG  
GACCTGGACAGAAACAAAGATGGCTATGTCCAGGTGGAGGAGTACATCGCGGATCTGACTCAGCCGAGC  
CTGGGGAGGAGGACCGGCGTGGGTGCAGACGGAGAGGCAGCAGTTCGGGACTTCCGGGATCTGAACAA  
GGATGGGCACCTGGATGGGAGTGAGGTGGGCCACTGGGTGCTGCCCCCTGCCAGGACAGCCCCCTGGT  
GAAGCCAACCCTGCTGCACGAGAGCGACACGGACAAGGATGGGCGGCTGAGCAAAGCGGAAATCCTGG  
GTAATTGGAACATGTTTGTGGCAGTCAGGCCACCAACTATGGCGAGGACCTGACCCGGCACCACGATGA  
GCTGTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_020650 unedited</p> <pre> CCCCGTTCAAATTTGTATACGACTCATATAGGCGCCTGCGAATCGGCACCAGGNAACG CAGAGCGGAGCGTGGAGAGCGGAGCGAAGCTGGATAACAGGGGACCGATGATGTGGCGAC CATCAGTTCTGTCTTCTGTTGCTACTGAGGCACGGGGCCAGGGGAAGCCATCCCCAG ACGCAGGCCCTCATGGCCAGGGGAGGGTGCACCAGGCGGCCCCCTGAGCGACGCTCCCC ATGATGACGCCACGGGAACCTCCAGTACGACCATGAGGCTTTCCTGGGACGGGAAGTGG CCAAGGAATTCGACCAACTCACCCAGAGAAAGCCAGGCCCTCTGGGGCGGATCGTGG ACCGCATGGACCGCGGGGGACGGCGACGGCTGGGTGTCGCTGGCCGAGCTTCGCGCGT GGATCGCGCACACGCAGCAGCGGCACATACGGGACTCGGTGAGCGCGCCTGGGACACGT ACGACACGGACCGCAGCGGGCGTGGGTGGGAGGAGCTGCGCAACGCCACCTATGGCC ACTACGCGCCCGTGAAGAATTCATGACGTGGAGGATGACAGAGACCTACAAAAAGATGC TGGCTCGGGACGAGCGCGTTCGCGGTGGCCGCCAGGATGGGGACTCGATGGCCACTCG AGAGGAGTGACAGCCTTCTGCCCCGNAGGAGTTCCTCACATGCGGNGACATCGTGA TTGCTGACACCCTGNAGGACCTGGACAGAACCAAGAGGGCTTGCCAGGTGGGAGGAGTA CATCGCGGACTGCGCCCCACCCCCCTGGGGGAGGAGCCGGCGTGGGTGCGACGGAG GGCCACCAATTCTGGCTTTCCGGATCTGACCACGATGGCACTGATTGNGAAAGTNAGGA GCCCTCTGGGTGCTGCCCTG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_020650 unedited</p> <pre> NTTTCGTGCGGCTTTTATGCCTCTGGCANGAGGNAGTGTCCCGGCCAGGCCAGGCAGGA GAGGGCTGGGGCCAGGGGAGTTTCACTATGTGGTGGAGGCTCAGATTTGGAGCTGGAG GGGTTGGGGCGGTTCTTAGAGCTGAGCTTGGGGCAAGGGTCCCTGGGTCTGGGCTGGGA GACTCAGTCAGAAATAGGTATTGCTTATCCTCTGGGACTATGACAGCCCCCTCCCTGGGGT TGGGGGTGTGACAGGGACAGAAGCCGACCCAGGGGGTCCCTGACAGCCAGGGGCAGGAG GATGCCTGGGACTGCATCTGCCTCTGCGGGCCCTGGACAGGGAGGGGGCCAGACCACAG CGGCCCTCCTCAGGTCATTGTGCGGCCCTCTGAGGCTGTGGCACGTGCGCGGTGCTCAC AGCTCATCGCGCTGCCGGGTGAGTCTCGCCATAGTTGGTGGCCTGACTGCCACAAAC GTGGTCCAGTTACGCCAGATTTCCGCTTTGCTTAGCCGCAATCCTTGCCGTGTCGCT CCGTGCACCGGGTGGGTGGTCCCACGAAGGGCTGGGCTGGTTCAGGGGGCAGGACTCAG TGGTTCACCTTACTCCCATCCAGGTGCCTATCTTTGTTCCAATCCCGGAATCTCGTAGT TGCTGTCCCGTGGTTCGCGGCATGCTGGCTCTCGTCCGAGGCTCGCTTGATTCTACT TCCGAGGTGGTGTGCTCAACCGTCTTAACGTTCTTCTCTCTCGGGCACGGACCCTAG TGTTTTATCGACCACTACCTTCAGGTTTGTAGCGCAACCCTTCCGCCGTGAGGGAAGGC ATCCCCCTCCTCTCCAGAGAGGTTATAATCCCCTTCCGGGGGGCCCTACCGGACAACCC GTGTTGCCCG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_020650
Insert Size:	1650 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_020650.2</u> , <u>NP_065701.2</u>
RefSeq Size:	1882 bp
RefSeq ORF:	987 bp
Locus ID:	57333
UniProt ID:	<u>Q96D15</u>
Cytogenetics:	19q13.33
Domains:	EFh
Gene 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]