

Product datasheet for **SC109715**

p107 (RBL1) (NM_183404) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p107 (RBL1) (NM_183404) Human Untagged Clone
Tag:	Tag Free
Symbol:	p107
Synonyms:	CP107; p107; PRB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_183404, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCGAGGACAAGCCCCAGCTGAGGGGGCGGCGGTGGTCGCCGCAGCCGGGGAGGCGCTACAGGCC
TGTGCCAGGAGCTGAACCTGGACGAGGGGAGCGCGGCCGAAGCCCTGGACGACTTACTGCCATCCGAGG
CAACTACAGCCTAGAGGGAGAAGTTACACACTGGTTGGCATGTTCAATTATGTTGCATGCCGAAAAGC
ATTATTCCACGTTTGGAAAGGGTATCATGGAAGGCAACTGTGTTTCACTTACCAGAATACTACGTTACG
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CCAATTTTTTTAGATATATTTCAAAATCCATATGAAGAACCACCAAAGTTACCACGAAGCCGGAAGCAGA
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AGGAAGATATTAAGGAGAATGCCTCCTGGACCTTTCAAGTTTTACTGATAATAGCAAAGCAGTGAATA
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TGAGGTGGTGATCCGCTCAGAAGAGGGCTCTCAAGGGACATGGTGAACACCTAAACAGCATTGAAGAA
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GGAGTGCTAAGAGAAGACTCTTTGGAGAGGACCCCCAAAGGAAATGCTTATGGACAAGATCATAACAGA
AGGAACAAAATTGAAAATCGCTCCTTCTCAAGCATTACTGCTGAAAATGTATCAATTTTACCTGGTCAA
ACTCTTCAACAATGGCCACAGCCCCAGTAACAGGAACAACAGGACATAAAGTTACAATTCATTACATG
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GATGGATGCTCCACCACTCTCCTTTTCCACATATTAACAACAGCCAGGCTCACCACGCCGATTTCC
CAGCAGCACTCCATTTATATTTCCCGCACAAGAATGGGTGAGGCTTACACCAAGAAGCGCTCTGCTGT
ACAAGTTCAATGGCAGCCCTTCAAGGTAAGGTGA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_183404 unedited TAATACCGACTTCACCTATNAGTGGANCGGCACCGCNAATTNCGGCCACGAAGGGCGCC CTGGGNAGAGGAGAAAGAAGTCGGGGCCGTGGCGCGCAGCCCGGGGCCTGAAGGGAT GTTCGAGGACAAGCCCCACGCTGAGGGGGCGCGGTGGTCGCCGAGCCGGGAGGCGCT ACAGGCCCTGTGCCAGGAGCTGAACCTGGACGAGGGGAGCGGGCCGAAGCCCTGGACGA CTTTACTGCCATCCGAGGCAACTACAGCCTAGAGGAGAAGTTACACACTGGTTGGCATG TTCATTATATGTTGCATGCCGAAAAGCATTATCCCACGGTTGAAAAGGTATCATGGA AGGCAACTGTGTTTCACTTACCAGAATACTACGTTACAGCTAAATTAAGTTTAATACAATT TTTTAGTAAAATGAAGAAATGGATGGACATGTCAAATCTACCACAAGAATTTTCGTGAACG TATAGAAAAGGCTAGAGAGAAATTTGAGGTGTCTACTGTAATATTCAAAAATATGAGCC AATTTTTTTAGATATATTTCAAATCCATATGAAGAACCACCAAAGTTACCACGAAGCCG GAAGCAGAGGAGGATTCCTTGCAGTGTTAAGGATCTGTTAATTTCTGTTGGACTNNTN TGTTTATACTAAGGTAATNTCGGATGATTGGGGATGACTTANTAACTCTTATCATT ACTTCTATGCTGCTAGGATCTGATNTTTGCCAATGCGATTATGTGCCAAATANGACAGA CTTTGCTAACCATCATTTAAGGGTTACATCTGATNTTATACTGCTGACTTACGGCTNNCT GAGAGCACCTGCATCATTGCTGTACTGGNGACTGCATGATGGACTNCTCGTAAAGCAAA GGGATAAGGAGCCCTCTCTAGCCCTTATCAAACCTCTGCAGGAGATTAAGGAAATGCC TCTGACCTTNCAGTTACGTATAGCAAC</p>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_183404 unedited CTCCACCCTCTCTCTTTTCCACATATTAACAACAGCCAGGCTCACCACGCCGATTT CCCAGCAGCACTCCATTTATATTTCCCGCACAGAATGGGTGAGCCTTACACCAAGAA GCCTCTGCTGTACAAGTTCAATGGCAGCCCTTCAAGGTAAGGTGAATAGGCTAAAAGT TGGATTCAGATTAACAGTCAGTAACTGTTAATCCTGCCTCTTTTTTTTTTTTTCTTTT TGGCCAAGTTACTACTATACTAATAAAATATGAAATGTTAAAAAAAAAAAAAAAAAACTC GACTCTAGATTGCGGCCGCGGTCAAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCT GTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCC TTGTCCTAATAAAATTAAGTTGCATCATTTGTCTGACTAGGTGTCTTATAATATTA TGGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_183404
Insert Size:	2950 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_183404.1</u> , <u>NP_899662.1</u>

RefSeq Size:	3371 bp
RefSeq ORF:	3045 bp
Locus ID:	5933
UniProt ID:	P28749
Cytogenetics:	20q11.23
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Cell cycle, TGF-beta signaling pathway
Gene Summary:	<p>The protein encoded by this gene is similar in sequence and possibly function to the product of the retinoblastoma 1 (RB1) gene. The RB1 gene product is a tumor suppressor protein that appears to be involved in cell cycle regulation, as it is phosphorylated in the S to M phase transition and is dephosphorylated in the G1 phase of the cell cycle. Both the RB1 protein and the product of this gene can form a complex with adenovirus E1A protein and SV40 large T-antigen, with the SV40 large T-antigen binding only to the unphosphorylated form of each protein. In addition, both proteins can inhibit the transcription of cell cycle genes containing E2F binding sites in their promoters. Due to the sequence and biochemical similarities with the RB1 protein, it is thought that the protein encoded by this gene may also be a tumor suppressor. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR compared to variant 1, that causes a frameshift. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a.</p>