

## Product datasheet for **SC108553**

### **RBM5 (NM\_005778) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RBM5 (NM_005778) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBM5
Synonyms:	G15; H37; LUCA-15; LUCA15; RMB5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC108553 sequence for NM\_005778 edited (data generated by NextGen Sequencing)

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ATGGGTTCCAGACAAAAGAGTGAGTAGAACAGAGCGTAGTGAAGATACGGTTCCATCATA
GACAGGGATGACCGTGATGAGCGTGAATCCCGAAGCAGGCGGAGGGACTCAGATTACAAA
AGATCTAGTGATGATCGGAGGGGTGATAGATATGATGACTACCGAGACTATGACAGTCCA
GAGAGAGACCGTAAAAGAAGGAACAGTGACCGATCCGAAGATGGTACCATTGATGGT
GACTATGGTGAGCACGACTATAGGCATGACATCAGTGACGAGAGGGAGAGCAAGACCATC
ATGCTGCCGCGCCTTCCCATCACAGAGAGCGATATTGAGAAAATGATGGAGTCC
TTCGAAGGCCCTCAGCCTGCGGATGTGAGGCTGATGAAGAGGAAAACAGGTGTAAGCCGT
GGTTTCGCCTTCGTGGAGTTTTATCACTTGCAAGATGCTACCAGCTGGATGGAAGCCAAT
CAGAAAAAGTTGGTGATTCAAGGAAAGCACATTGCAATGCATTATAGCAATCCCAGACCT
AAGTTTGAAGATTGGCTTTGTAACAAGTGTGCCTTAACAATTTGAGGAAAAGACTAAAA
TGCTTCCGATGTGGAGCAGACAAGTTTGACTCTGAACAGGAAGTGCCTCCTGGAACCACA
GAGTCGGTTCAGTCTGTGGATTACTACTGTGATACGATCATTCTTCGGAACATAGCTCCG
CACACTGTGGTGGATTCCATCATGACAGCACTGTCTCCTTACGCGTCTTTAGCTGTCAAT
AACATCCGCCTCATAAAAGACAAAACAGACCAGCAGAACAGAGGGTTCGCAATTTGTGCAG
CTGTCCCTCTGCAATGGATGCTTCTCAGCTGCTTCAGATATTACAGAGTCTCCATCCTCCT
TTGAAAATTGATGGCAAAACTATTGGGGTTGATTTTGCAAAAAGTGCCAGAAAAGACTTG
GTCCTCTCAGATGGTAACCGCGTCAGCGCCTTCTCTGTAGCTAGTACGGCTATTGCTGCT
GCTCAGTGGTCAATCCACCCAGTCTCAAAGTGGTGAAGGAGGCAGTGTGACTACAGTTAT
CTGCAACCAGGTCAAGATGGCTATGCCCAATATGCTCAGTATTCACAGGATTATCAGCAG
TTTTATCAACAACAAGCTGGAGGATTGGAATCTGATGCATCATCTGCATCAGGCACAGCA
GTGACCACCCTCAGCGGCTGTAGTGTCCAGAGTCTCAGCTGTATAATCAAACCTCC
AATCCACCTGGCTCTCCGACTGAGGAAGCACAGCCTAGCACTAGCACAAAGTACACAGGCC
CCAGCCGCTTCCCTACTGGTGTAGTTCCTGGTACCAAATATGCAGTACCTGACACGTCC
ACTTACCAGTATGATGAATCTTCAGGATATTACTATGATCCGACAACAGGGCTCTATTAT
GACCCCAACTCGCAATACTACTATAATTCTTGACCCAGCAGTACCTTTACTGGGATGGG
GAAAAAGAGACCTACGTGCCAGCTGCAGAGTCTAGCTCCACCAGCAGTCGGGCTGCCT
CCTGCAAAAGAGGGGAAAGAGAAGAAGGAGAAAACCAAGAGCAAAAACAGCCAGCAGATT
GCCAAAGACATGGAACGCTGGGCTAAGAGTTTGAATAAGCAGAAAAGAAAACCTTTAAAAAT
AGCTTTCAGCCTGTCAATTCCTTGAGGGAAGAAGAAAGGAGAGAAATCTGCTGCAGCAGAC
GCTGGCTTTGCTCTCTTTGAGAAGAAGGAGCCTTAGCTGAAAGGCAGCAGCTCATCCCA
GAATTGGTGCGAAATGGAGATGAGGAGAATCCCTCAAAGGGGTCTGGTTGCTGCTTAC
AGTGGTGACAGTGACAATGAGGAGGAGCTGGTGGAGAGACTTGAGAGTGAGGAAGAGAAG
CTAGCTGACTGGAAGAAGATGGCCTGTCTGCTCTGCCGGCGCCAGTTCGGAACAAAGAT
GCCCTAGTCAGGCACCAGCAACTCTCAGACCTTACAAGCAAAACATGGACATCTACCGA
CGATCCAGGCTGAGCGAGCAGGAGCTGGAAGCCTTGGAGCTAAGGGAGAGAGAGATGAAA
TACCGAGACCGAGCTGCAGAAAGACGGGAGAAGTACGGCATTCCAGAACCTCCAGAGCCC
AAGCGCAAGAAGCAGTTTGTGCCGGCACTGTGAATTACGAGCAACCCACCAAAGATGGC
ATTGACCACAGTAACATTGGCAACAAGATGCTGCAGGCCATGGGCTGGCGGGAAGGCTCT
GGCTTGGGACGAAAAGTGTCAAGGCATTACGGCTCCATTGAGGCTCAAGTTGCGGCTAAAG
GGAGCTGGCCTAGGAGCCAAAGGCAGCGCATATGGTTTGTGCGGCGCCGATTCTACAAA
GATGCTGTCCGAAAGCCATGTTTGCCCGTTCAGTGTGAGATGGAGTGA
    
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Clone variation with respect to NM\_005778.2  
 990 t=>c;2037 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005778 unedited  
 GGTCAAATTTGTATACGACTCCTATAGGGCGGCCGCGATTTCGGACGAGGCCTTGTGGAG  
 GTTCTGGGGCGCAGAACCCTACTGCTGCTTCGGTCTCTCCTTGGNGAAAAAATAAAATT  
 TGAACCTTTTGGAGCTGTGTGCTAAATCTTCAGTGGGACAATGGGTTTCAGACAAAAGAGT  
 GAGTAGAACAGAGCGTAGTGAAGATACGGTCCATCATAGACAGGGATGACCGTGATGA  
 GCGTGAATCCCGAAGCAGGCGGAGGGACTCAGATTACAAAAGATCTAGTGATGATCGGAG  
 GGGTGATAGATATGATGACTACCGAGACTATGACAGTCCAGAGAGAGAGCGTGAAAGAAG  
 GAACAGTGACCGATCCGAAGATGGCTACCATTTCAGATGGTGACTATGGTGAGCAGACTA  
 TAGGCATGACATCAGTGACGAGAGGGAGAGCAAGACCATCATGCTGCGCGCCTTCCCAT  
 CACCATCACAGAGAGCGATATTCGAGAAATGATGGAGTCTTCGAAGGCCCTCAGCCTGC  
 GGATGTGAGGCTGATGAAGAGGAAAACAGGTGTAAGCCGTGGTTTCGCCTTCGTGGAGTT  
 TTACTCTTGAAGATGCTACCAGCTGGATGGAAGCCAATCAGAAAAAGTTGGTGATTCA  
 AGGAAAGCACATTGCAATGCATTATAGCAATCCCAGACCTAAGTTTGAAGATTGGCTTTG  
 TAAACAAGTGTGCCTTAAACAATTCAGGAAAGACTAAAATGCTTCCGATGTGGAGCAGAC  
 CAGTTTGACTCTGAACAGAAAAGTGCCTCCTGGGACCACGAGTCCGTCAGTCTGTGGATAC  
 TACTGTGATCGAACTTTCTTCGAACTAACTCCGCCACTGTGGGAATCCATCATGACAGA  
 CTGTCTTACCCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005778 unedited  
 CTACAGGCTCATTTTNTCTCTGTTTAAAGGGAGNCCAGNCATTTGGCACTAGNACTGN  
 AAAATCTTCCAAAATTCTGTACAAATGTGTAATATACAAATATACACAAGGCTTTTGCCA  
 AGAAAAGACATACAACAATGACAGAGGTGGCTTTGGTGTACATACCACCTACAGCAT  
 CTCAAACCCCTAGGAATGTGAGGGGCTGATGGACCACAACATAGGCTACACATGTAACA  
 CGCTACATTACACTATGTACACTGGAGTATAAACAATCCACTGTCCTCTCCGGTCTGTTC  
 ACAAGCCCTCTGGCGGGAAGGAAGGCCATTACCAGGCAACCCACATAAGGGGAACCTTCT  
 TTAAGGTGGGAGGGAGAACCCTGCAGAATGAAGTGGTTCACCCTAAGATCTATTAACAGC  
 ACAAGGCATGCCCTTAAAGAGACAGGCGGTAACAGCGAATTCGGGAGATGGACCCTTCT  
 TGTGCTCCTTGTATCTCTCTCTCTCTCTCTCACTCCATCTCAGTGAACCGGGCAA  
 ACATGGCTTCCGACAGCATCTTTGTAGGAATCGGCGCCCGACAAACCATATGCGCTGC  
 CTTTGGCTCCTAGGCCAGCTCCCTTTAGCCGAACCTTGGCCTCAATGGGAGCCGTAATGC  
 CTTGACACTTTCGTCCTCAAGCCAGAGCCTTTCGCCAGCCCATGGCCTGCAGCATCTTGT  
 TGCCAATGTTACTGTGGTCAATGCCATCTTTGGTGGCTGGCTCCGTAATTACAGTGCCCG  
 CATAAACTGCTTCTTGCCTTGGCTCTGGAGTTCTGGAATGCCGTACCTTTTCCCTT  
 TTCTTGACAGCTTGGCCCTNGGGATTTAATCTCCTTCTCCCTTACCTCCAGGTTTCCATT  
 CCTTGCTTGTCTAACCTGGATACTCCGCCAAAGTCCCTTGTGTTTGAAGGTCTAAA  
 AATTCTTGCGCCGACTAGGGCATTTTTTCTTGGAACTGCGCCCGCTACACN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005778

**Insert Size:**

3100 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005778.1</a> , <a href="#">NP_005769.1</a>
<b>RefSeq Size:</b>	3135 bp
<b>RefSeq ORF:</b>	2448 bp
<b>Locus ID:</b>	10181
<b>UniProt ID:</b>	<a href="#">P52756</a>
<b>Cytogenetics:</b>	3p21.31
<b>Domains:</b>	G-patch, RRM, zf-RanBP, zf-C2H2
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene is a candidate tumor suppressor gene which encodes a nuclear RNA binding protein that is a component of the spliceosome A complex. The encoded protein plays a role in the induction of cell cycle arrest and apoptosis through pre-mRNA splicing of multiple target genes including the tumor suppressor protein p53. This gene is located within the tumor suppressor region 3p21.3, and may play a role in the inhibition of tumor transformation and progression of several malignancies including lung cancer. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and is protein coding.</p>