

## Product datasheet for **SC124734**

### RBMS1 (NM\_016838) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | RBMS1 (NM_016838) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | RBMS1   |
| Synonyms:                 | c-myc gene single strand binding protein 2; C2orf12; cervical cancer oncogene 4; DKFZp564H0764; HCC-4; MGC3331; MGC15146; MGC70597; MGC97258; MGC97270; MGC97282; MGC99543; MSSP; MSSP-1; MSSP-2; MSSP-3; SCR2; suppressor of cdc 2 (cdc13) with RNA bindi; YC1   |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL5</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC124734 sequence for NM_016838 edited (data generated by NextGen Sequencing)<br>ATGGCCCCTCCCAGTCCCAGCACCACCAGCAGTAATAACAACAGTAGCAGCAGTAGCAAC<br>TCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCCTCCCCACACC<br>ACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGGCA<br>ATTTTGGATAAGACAACGAACAAATGCAAAGGTTATGGTTTTGTCGACTTTGACAGCCCT<br>GCAGCAGCTCAAAAAGCTGTGTCTGCCCTGAAGGCCAGTGGGGTTCAAGCTCAAATGGCA<br>AAGCAACAGGAACAAGATCCTACCAACCTCTACATTTCTAATTTGCCACTCTCCATGGAT<br>GAGCAAGAAGTAGAAAAATGCTCAAACCATTTGGACAAGTTATTTCTACAAGGATACTA<br>CGTGATTCAGTGGTACAAGTCGTGGTGTGGCTTTGCTAGGATGGAATCAACAGAAAAA<br>TGTGAAGCTGTTATTGGTCATTTAATGGAAAATTTATTAAGACACCACCAGGAGTTTCT<br>GCCCCACAGAACCTTTATTGTGTAAGTTTGTGATGGAGGACAGAAAAAGAGACAGAAC<br>CCAAACAATAACATCCCTAATGGAAGACCATGGCATAGAGAAGGAGAGGTGAGACTTGCT<br>GGAATGACACTTACTTACGACCCAACTACAGCTGCTATACAGAACGGATTTTATCCTTCA<br>CCATACAGTATTGCTACAAACCGAATGATCACTCAAACCTCTATTACACCCTATATTGCA<br>TCTCCTGTATCTGCCTACCAGGTGCAAAGTCCTTCGTGGATGCAACCTCAACCATATATT<br>CTACAGCACCCCTGGTGCCGTGTTAACTCCCTCAATGGAGCACACCATGTCACTACAGCCC<br>GCATCAATGATCAGCCCTCTGGCCAGCAGATGAGTCATCTGCTACTAGGCAGCACCGGA<br>ACATACATGCCTGCAACGTGAGCTATGCAAGGAGCCTACTTGCCACAGTATGCACATATG<br>CAGACGACAGCGTTCTGTTGAGGAGGCAAGTGGTCAACAGCAGGTGGCTGTCGAGACG<br>TCTAATGACCATTCTCCATATACCTTTCAACCTAATAAGTAA |

Clone variation with respect to NM\_016838.1



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|                                     |  |
|-------------------------------------|--|
| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for NM_016838 unedited<br>AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCCCGCGCCCGCGCCCGC<br>GCCCGCACCCCGCCCGCCCGCCCGCAGCGATGATCTTCCCAGCAGCAGTGGCAACCCCG<br>GGGGCAGCAGCAACTGCCGGACGCCCTATCGCAAGCAGCAGTCTCTGGTCCCAGCCACC<br>CCATGGCCCTCCCAGTCCCAGCACCACCAGCAGTAATAACAACAGTAGCAGCAGTAGCA<br>ACTCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCCTCCCACA<br>CCACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGG<br>CAATTTTGGATAAGACAACGAACAAATGCAAAGTTATGGTTTTGTGACTTTGACAGCC<br>CTGCAGCAGCTCAAAAAGCTGTGTCTGCCCTGAAGGCCAGTGGGGTTCAAGCTCAATGG<br>CAAAGCAACAGGAACAAGATCCTACCAACCTCTACATTTCTAATTTGCCACTCTCCATGG<br>ATGAGCAAGAAGTAAAAATATGCTCAAACATTTGGACAAGTTATTTCTACAAGGATAC<br>TACGTGATCCAGTGGTACAAGTCGTGGTGTGGCTTTGCTAGGATGGAATCAACAGAAA<br>AATGTGAAGCTGTATTGGTCATTCTAATGGGAAATCTATTAAGACACCACCAGGAGTTT<br>CTGCCCCACAGAACCTTTATTGGNGTAGTTTGCTGATGGGAGGACAGAAAAGAGACAGA<br>ACCCAAACANATACATCCCTAATGGGAGACCATGGCATAGAGAAGGGAGAGGGTGAGACT<br>GCTGNGATGACACTTACTTACGACCCNACTACAGCTGCTATACAGAACGGNATTTNTNCC<br>TTCACCATACAGTATTGGCTACAACCCGATGATCACTCAAATTNCTATACACCCTATATG<br>CATCTCTNATCTGCTACAGNNGCAAGTCTCTGGGAGCACC |
| <b>Restriction Sites:</b>           | NotI-NotI  |
| <b>ACCN:</b>                        | NM_016838  |
| <b>OTI Disclaimer:</b>              | 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).   |
| <b>Components:</b>                  | 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>                      | <u><a href="#">NM_016838.1</a></u> , <u><a href="#">NP_058522.1</a></u>  |
| <b>RefSeq Size:</b>                 | 1402 bp  |
| <b>RefSeq ORF:</b>                  | 1122 bp  |
| <b>Locus ID:</b>                    | 5937   |
| <b>Cytogenetics:</b>                | 2q24.2   |

**Gene Summary:**

This gene encodes a member of a small family of proteins which bind single stranded DNA/RNA. These proteins are characterized by the presence of two sets of ribonucleoprotein consensus sequence (RNP-CS) that contain conserved motifs, RNP1 and RNP2, originally described in RNA binding proteins, and required for DNA binding. These proteins have been implicated in such diverse functions as DNA replication, gene transcription, cell cycle progression and apoptosis. Several transcript variants, resulting from alternative splicing and encoding different isoforms, have been described. A pseudogene for this locus is found on chromosome 12. [provided by RefSeq, Feb 2009]

Transcript Variant: Transcript variant MSSP-1 lacks exons 2 and 10, and uses an alternate exon 1 splice junction that results in a protein of 373 amino acids.