

Product datasheet for **SC114740**

RBM16 (SCAF8) (NM_014892) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBM16 (SCAF8) (NM_014892) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBM16
Synonyms:	RBM16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114740 sequence for NM_014892 edited (data generated by NextGen Sequencing)

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ATGGAGCCGTGAAGACCTTCAATAGCGAGTTGTATTCCCTGAATGACTATAAACACCC
ATTTGAAAGCGAAAATGACCCAAATTACTAAGGCAGCCATCAAAGCTATTAAAGTTCTAT
AAACATGTGGTACAGAGTGTGAGAAGTTTATTGAGAAATGTAAACCAGAATACAAAGTA
CCTGGACTTTATGTTATTGACTCCATTGTGCGACAATCCCGACATCAGTTTGGTCAAGAA
AAGGATGTGTTTGCACCCAGATTTAGTAATAACATCATTAGCACTTTCCAGAATTTATAT
CGTTGCCCTGGGGATGACAAGAGTAAAATAGTGAGAGTACTAACTTATGGCAGAAGAAT
AATGTATTTAAGAGTGAGATTATTCAGCCCTTTTGGATATGGCAGCCGGGATTCCGCCT
CCAGTTGTACACCTGTTTGGCCAGCACTACCACTGCTATGAGCAATACTCCAGGAAC
CCTGTGACACCTGTTACTCCGGCCAATGTGGTCCAAGGCTTACCTGATCCGTGGGTATCT
CAGATAACAAATACAGATACACTTGCGGCTGTAGCTCAGATCTTGCAAAGTCCTCAAGGC
CAGCAGCTTCAACAATTAATACAAACCTTACAGATACAACAACAGAAGCCCCAGCCTTCC
ATTCTGCAAGGCCCTAGATGCTGGTCTTGTGTTGTTGAGTTGCAAGCTCTTACGGCACAAC
ACAGCTGCAGCTGCAGCTGCCAACACTCTTACTCCCTTAGAACAGGGAGTCTCCTTTAAC
AAGAAGTTGATGGATAGGTTTGATTTTGGGGAAGACTCTGAGCATAGTGAAGAACCCAAA
AAGGAAATTCAGCTTCACACTTTCTCACGTTTCAGAATCTGTGAACAATTCATTTTT
CATCAGATAGCAGAACAACACTACAACAGCAAAACCTAGAACATCTCAGACAGCAGCTCTTG
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GAGCATTGAGCGTCACCATCACAAAGGGAGTAGTCAGCAGCATTTTCTTGAACTGAAGTC
AATTTGGATGATTCCATAGATATTCAGCAACAGGATATGGATATAGATGAAGGGCAAGAT
GGAGTGGAAGAGGAGGTCTTTGAACAAGAAGCTAAGAAAGTGGCGGTTTCGCTCAAGATCA
AGAACACATTCACGATCTCGTTCAAGATCACCAAGAAAACGAAGGTCTAGGTCACGGTCT
GGCTCTAGAAAGCGTAAACACAGAAAGCGATCACGCTCCCGCTCAAGAGAAAGAAAGAGG
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AAAAAGGGATTACCTCCAATTAGATCTAAACACTAAGTGTATGTAGTACTACTCTCTGG
GTTGGGCAAGTGACAAGAAGGCAACACAGCAAGACTTAACCAACCTGTTTGAAGAGTTT

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GGACAGATTGAATCCATTAATATGATTCTCCCCGGGGCTGTGCTTATGTCTGCATGGT
CATCGACAAGATGCATTTTCGAGCTCTTCAGAACTCAGTTCTGGATCATATAAAATTGGG
TCCAAGGTCATTAAGATCGCTTGGGCTTTAAACAAAGGTGTAAAAACAGAATACAAACAA
TTCTGGGATGTGGATCTTGGAGTTACATATATACCATGGGAAAAAGTTAAAGTGGATGAC
TTGGAAGGTTTTGCAGAAGGAGGCATGATTGATCAGGAGACTGTAATACTGAGTGGGAA
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GTTGAAAAGGAGACAGTGGTCACAACCCAGGCAGAGGTTTTCCCTCCTCCTGTTGCTATG
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GTGTGCGATGCCGGTTCCTCCTCCTGGATTGAGTCCAATCCCTCCACCTCCTTTTTTAAGA
GCAAGTTTTAACCTTCACAACCACCACCTGGTTTCATGCCGCCTCCAGTTCCCCACCT
GTTGTGCCACCCCTACGATTCCACCAGTAGTACCAACATCTTTAGTGCAGCCGTCATTA
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CCACCAGCTGGACCTCAAACTTACCCCTTTAAGTATCCCTAATCAAAGGATGCCACA
ATGCCAATGTTAGACATTCGTCCGGGACTAATACCACAGGCACCTGGGCCAAGATTCCCT
TTAATACAGCCTGGAATTCACCCCAACGGGGAATCCACCCCATCGGTACTTGATTCA
GCTCTTCATCCACCACCCGTGGACCTTTTCTCCAGGAGATATTTTAGTCAACCAGAA
AGACCTTTTTTAGCTCCTGGAAGACAAAGCGTAGACAATGTTACTAACCCAGAAAAAAGG
ATACCCTTGGGAATGATAACATTCAACAGGAAGGAGATAGAGATTACCGGTTTCCTCCT
ATAGAAACCAGGGAAAGCATTAGTAGACCTCCCCCTGTGGATGTTAGAGATGTGGTTGGG
CGGCCTATAGATCCAAGAGAAGGTCTGGACGGCCTCCACTAGATGGTAGGGATCATTTT
GGAAGACCTCCTGTAGATATAAGAGAGAATCTTGTGAGGCCAGGTATAGATCATCTTGGT
CGAAGAGACCACTTTGGCTTTAATCCAGAGAAGCCCTGGGGGCATAGAGGAGATTTTGAT
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TTTGGACAAGAAGTTCACAGAGATTTTGATGACCGCAGAAGACCCTGGGAGAGGCAAGG
GATAGGGATGACAGAGATTTTGATTTCTGCAGAGAAATGAATGGAATCGTCTTGGACGA
GACAGAATTCAAAACACTTGGGTCCCCCTCCTCATGCTCGGGTTTTTGATTATTTTGA
GGGGCCACTTCTCAACGAAAAGGTGATAATGTGCCTCAGGTTAATGGTGAAAATACAGAG
AGACATGCTCAGCCACCACCTATACCAGTACAGAATGATCCTGAACCTTTATGAAAACTG
ACATCTTCAAATGAAATAAACAAGGAGAAGAGTGACACAGTTGCTGATATAGAAAGTGAA
CCAGTGGTAGAAAGCACAGAACTGAGGGGACATAA

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Clone variation with respect to NM_014892.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014892 unedited <pre> GGGGTGCAACATATGTATACGACTCACTATAGGCGGCCGGAATCGGCACGAGGCCCGCC CCGGCAGCGCCTCTGTTCCCTAGAACGGCGCTCCCCCGCCCTAGCGGCCATGCCGGTGC CGCTCTGCCGCTGAGGGAGCCCTTCCCCGCCAGCGCGTGCCCTTCCACTCCGCCCGAGG TCGCAGCGGCCGCTCTCCCGCCAGCGCCCTCCTCGCGGCCACGCAGCAGCCCGCGTC TCGCTCTCCCCACCCAGTGCACTGGCCGCCGCTCTTCCGCCCGGGCTCGGGGCTCC GCAGCGACAACATGGAGGCCGTGAAGACCTTCAATAGCGAGTTGTATTCCCTGAATGACT ATAAACCCACCATTTTCGAAAGCGAAAAATGACCCAAATTACTAAGGCAGCCATCAAAGCTA TTAAGTTCTATAAACATGTGGTACAGAGTGTGAGAAGTTTATTAGAAATGTAAACCAG AATACAAAGTACCTGGACTTTATGTTATTGACTCCATTGTGCGACAATCCCGACATCAGT TTGGTCAAGAAAAGGATGTGTTTGCACCCAGATTTAGTAATAACATCATTAGCACTTTCC AGAATTTATATCGTTGCCCTGGGATGACAAGAGTAAATAGTGAGAGTACTAACTTAT GGCAGAAGAATAATGTATTTAAGAGTGAGATTATTCAGCCCTTTTGTATGGCAGCCG GGATTCCGCTCCAGTTGTCACACCTGTTTGGCCAGCACTACCACTGCTATGAGCAAAT ACTCCAGAACTCCTGTGACACCCTGTACTCCGGCCATGTGGTCCAAGCCTACCTGATCCG TGGGATCTCANATACAATACAGAACACCTTGCCTGTACTCAAACCTGCAAGATCTCAGG ACACAGCTCAACATTATA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014892
Insert Size:	7000 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:	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_014892.3</u> , <u>NP_055707.3</u>
RefSeq Size:	5018 bp
RefSeq ORF:	3816 bp
Locus ID:	22828
UniProt ID:	<u>Q9UPN6</u>
Cytogenetics:	6q25.2
Domains:	RRM, RPR

Gene Summary:

Anti-terminator protein required to prevent early mRNA termination during transcription (PubMed:31104839). Together with SCAF4, acts by suppressing the use of early, alternative poly(A) sites, thereby preventing the accumulation of non-functional truncated proteins (PubMed:31104839). Mechanistically, associates with the phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit (POLR2A), and subsequently binds nascent RNA upstream of early polyadenylation sites to prevent premature mRNA transcript cleavage and polyadenylation (PubMed:31104839). Independently of SCAF4, also acts as a positive regulator of transcript elongation (PubMed:31104839).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) contains an alternate 5' exon and it thus differs in its 5' UTR and initiates translation at an downstream in-frame start codon, compared to variant 1. The encoded isoform (d) is shorter at the N-terminus, compared to isoform a. Both variants 4 and 5 encode isoform d.