

Product datasheet for **SC337980**

RBM16 (SCAF8) (NM_001286199) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	RBM16
Synonyms:	RBM16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286199, the custom clone sequence may differ by one or more nucleotides

```

ATGGAGGCCGTGAAGACCTTCAATAGCGAGTTGTATTCCTGAATGACTATAAACCACCCATTTGAAAG
CGAAAAATGACCCAAATTACTAAGGCAGCCATCAAAGCTATTAAGTTCTATAAACATGTGGTACAGAGTGT
TGAGAAGTTTATTAGAAAATGTAAACCAGAATACAAAGTACCTGGACTTTATGTTATTGACTCCATTGTG
CGACAAATCCCGACATCAGTTTGGTCAAGAAAAGGATGTGTTTGCACCCAGATTTAGTAATAACATCATT
GCACTTTCCAGAATTTATATCGTTGCCCTGGGGATGACAAGAGTAAATAGTGAGAGTACTAACTTATG
GCAGAAGAATAATGTATTTAAGAGTGAGATTATTCAGCCCCTTTGGATATGGCAGCCGGGATTCGCGCT
CCAGTTGTACACCTGTTTTGGCCAGCACTACCACTGCTATGAGCAATACTCCAGGAACCTCTGTGACAC
CTGTTACTCCGGCAATGTGGTCCAAGGCTTACCTGATCCGTGGGTATCTCAGATAACAAATACAGATAC
ACTTGGCGCTGTAGCTCAGATCTTGCAAAGTCTCAAGGCCAGCAGCTTCAACAATTAATACAAACCTTA
CAGATACAACAACAGAAGCCCCAGCCTTCCATTCTGCAGGCCCTAGATGCTGGTCTTGTGTTTCAGTTGC
AAGCTCTTACGGCACAACCTTACAGCTGCAGCTGCAGCTGCCAACACTCTTACTCCCTTAGAACAGGGAGT
CTCCTTTAAACAAGAAGTTGATGGATAGGTTTGATTTTGGGGAAGACTCTGAGCATAGTGAAGAACCACAA
AAGGAAATTCAGCTTCCAACTTTCTCACGTTTCAGAAATCTGTGAACAATTCATTTTTCATCAGATAG
CAGAACAATACAACAGCAAAACCTAGAACATCTCAGACAGCAGCTCTTGGAGCAGCAACAGCCTCAAAA
GGCCACTCCTCAGGATAGTCAGGAAGGAACCTTTGGGTCAAGCATTCAGCGTCACCATCACAAGGGAGT
AGTCAGCAGCATTTTCTGAACCTGAAGTCAATTTGGATGATTCCATAGATATTCAGCAACAGGATATGG
ATATAGATGAAGGGCAAGATGGAGTGGAAGAGGAGTCTTTGAACAAGAAGCTAAGAAAGTGGCGGTTTCG
CTCAAGATCAAGAACACATTACGATCTCGTTCAAGATCACCAAGAAAACGAAGGTCTAGGTCACGGTCT
GGCTCTAGAAAGCGTAAACACAGAAAGCGATCACGCTCCCGCTCAAGAGAAAGAAAGAGGAAATCATCAC
GGTCGATTCAAGTGAAAGGAGAGCCAGAGAAAGGGAGAAAGAACGACAGAAAAAGGGATTACCTCCAAT
TAGATCTAAACACTAAGTGTATGTAGTACTCTCTGGGTTGGGCAAGTGGACAAGAAGGCAACACAG
CAAGACTTAACCAACCTGTTTGAAGAGTTTGGACAGATTGAATCCATTAAATGATTCTCCCGGGGCT
GTGCTTATGTCTGATGGTTTCATCGACAAGATGCATTTGAGCTCTTCAGAAACTCAGTTCTGGATCATA
TAAATTTGGGTCCAAGGTCAATTAAGATCGCTTGGGCTTTAAACAAAGGTGTAAAAACAGAATACAAACAA

```



TTCTGGGATGTGGATCTTGGAGTTACATATATACCATGGGAAAAAGTTAAAGTGGATGACTTGAAGGTT
 TTGAGAAGGAGGCATGATTGATCAGGAGACTGTAAATCTGAGTGGGAACTGTGAAAAGCTCAGAACC
 TGTTAAAGAGACGGTCCAGACAACCTCAGAGCCCACTCCAGTTGAAAAGGAGACAGTGGTCACAACCCAG
 GCAGAGGTTTTCCCTCCTCCTGTTGCTATGTTGCAGATTCCAGTGGCGCCAGCCGTGCCTACAGTTAGTT
 TAGTCCACACAGCATTTCTGTGTCGATGCCGGTTCCTCCTCCTGGATTCAATCCAATCCCTCCACCTCC
 TTTTTAAGAGCAAGTTTTAACCTTCACAACCACCACCTGGTTTCATGCCGCTCCAGTCCCCCACCT
 GTTGTGCCACCCCTACGATTCCACCAGTAGTACCAACATCTTTAGTGCAGCCGTATTATCCATGACAC
 CGGAACTGTGAAAGATTTGGATTGGTAGCCTTGTATACAGGCGGTCTGTTGCCAGCAATCTTGC
 TACTTCCGCTCTGCCAGCTGGAATGTTTTAATGCTCCAATAACAGGCAGAGCCTGAAGAAAAAGTA
 CCTCATCTTATAGACCACAGATTTCTTCTGGTGAAAACACCAGATCAGTGATTCCAAATGATATTTCAA
 GTAATGCTGCAATTTAGGAGGACAGCCGCAATGTGACAAGCAATTCTGGAATCTGGGAGTCCAAAG
 ACCAAATGTATCAAGTAATCTGAAATCTTGGGTCCGGCCATCTAATGTTTCCAGTAGTTCTGGGATT
 ATTGCAGCCCAACCAACAAATATTCTAAATAACTCTGGAATATTGGGAATACAGCCACCCAGTGTGTCAA
 ATAGTCTGGACTTTTGGGAGTGCTACCCCAATATACCTAACAATTCTGGACTTGTAGGAGTACAGCC
 ACCAAATGTCCAAATACTCTGGACTTCTGGGAACACAGCCACCAGCTGGACCTCAAACTTACCCCT
 TTAAGTATCCCTAATCAAAGGATGCCACAATGCCAATGTTAGACATTCGTCCGGGACTAATACCACAGG
 CACCTGGGCAAGATTCCTTTAATACAGCCTGGAATCCACCCCAACGGGGAATCCACCCCATCGGT
 ACTTGATTCAGCTCTTCATCCACCACCCGTGGACCTTTCTCCAGGAGATATTTTAGTCAACCAGAA
 AGACCTTTTTAGTCTCTGGAAGACAAAGCGTAGACAATGTTACTAACCAGAAAAAGGATACCACTTG
 GGAATGATAACATTCAACAGGAAGGAGATAGAGATTACCGTTTCTCCTATAGAAACCAGGGAAGCAT
 TAGTAGACCTCCCTGTGGATGTTAGAGATGTGGTTGGGCGCCTATAGATCCAAGAGAAGGTCTGGA
 CGGCTCCACTAGATGGTAGGGATCATTTTGAAGACCTCTGTAGATATAAGAGAGAATCTGTGAGGC
 CAGGTATAGATCATCTTGGTGAAGAGACCACTTTGGCTTTAATCCAGAGAAGCCCTGGGGCATAGAGG
 AGATTTTGATGAGAGAGAGCATCGGGTTCTACCGGTCTATGGTGGTCCAAAAGGCTTACATGAAGAAAGA
 GGTAGATTTTGGTCTGGAACATATCGATTGATCCTAGAAGTGGTCTTGAACCGAGGATTTGGACAAG
 AAGTTCACAGAGATTTTGATGACCGCAGAAGACCTGGGAGAGGCAAGGGATAGGGATGACAGAGATTT
 TGATTTCTGCAGAGAAATGAATGGAATCGTCTTGGACGAGACAGAATCAAAACACTTGGGTTCCCTC
 CTTATGCTCGGGTTTTGATTATTTTGAAGGGCCACTTCTCAACGAAAAGGTGATAATGTGCCTCAGG
 TTAATGGTGAAAATACAGAGAGACATGCTCAGCCACCACCTATACAGTACAGAATGATCTGAACCTTTA
 TGAAAACTGACATCTTCAAATGAAATAACAAGGAGAAGGTGACACAGTTGCTGATATAGAAAGTGAA
 CCAGTGGTAGAAAGCACAGAACTGAGGGGACATA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001286199
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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001286199.1 , NP_001273128.1
RefSeq Size:	4897 bp
RefSeq ORF:	3816 bp
Locus ID:	22828
UniProt ID:	Q9UPN6
Cytogenetics:	6q25.2
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 (5) 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.