

Product datasheet for **SC338007**

RBM16 (SCAF8) (NM_001286189) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBM16 (SCAF8) (NM_001286189) Human Untagged Clone
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_001286189, the custom clone sequence may differ by one or more nucleotides

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ATGCCGCAGCCGCTGCTGCCAGCGCTTCTCTCTGTCTTCGCCGAGCGGGGCTGGTTCTGCGGCCCGA
GCGGCGGGGAGTGCAGTGGCCGCGCCTCTTCCGCCGCCGGGCTCGGGGCCTCCGCAGCGACAACATGGA
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CATCAGTTTGGTCAAGAAAAGGATGTGTTGCACCCAGATTTAGTAATAACATCATTAGCACTTTCCAGA
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ACTAAGTGTATGTAGTACTCTCTGGGTTGGGCAAGTGGACAAGAAGGCAACACAGCAAGACTTAACC
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AATCAAAGGATGCCCAATGCCAATGTTAGACATTCGTCCGGGACTAATACCACAGGCACCTGGGCCAA
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ATCTTCAAATGAAATAACAAGGAGAAGAGTGACACAGTTGCTGATATAGAAAGTGAACCACTGGTAGAA
AGCACAGAACTGAGGGGACATAA

Restriction Sites: SgfI-MluI

ACCN: NM_001286189

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: [NM_001286189.1](#), [NP_001273118.1](#)

RefSeq Size: 4908 bp

RefSeq ORF: 4014 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 (2) uses two alternate splice sites that result in the loss of an in-frame segment in the 5' coding region, and it also includes an additional in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (b) is shorter than isoform a.