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Product datasheet for RC206581

RBMS2 (NM_002898) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBMS2 (NM_002898) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RBMS2
Synonyms:	SCR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206581 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTATCCGTGACTTCCAGGCCCGGGATTTCGACTTTTGGCTACAATAGAAACAACAAGAAGCCAT
ATGTGTCACTGGCTCAGCAGATGGCACCACCTAGCCCAAGCAACAGTACACCTAACAGCAGTAGTGGAAG
CAATGGAAATGACCAGCTGAGCAAAACCAACCTATACATCCGAGGATTGCAACCAGGCACTACTGACCAA
GATCTTGTCAAGCTGTGTCAGCCATATGGCAAGATTGTTTCCACTAAGGCCATACTGGACAAGACCACAA
ACAAATGTAAAGGCTATGGCTTTGTAGATTTTGACAGCCCTTCAGCAGCACAGAAAGCTGTAACAGCACT
GAAGGCCAGCGGTGTACAGGCACAGATGGCAAAGCAACAGGAACAGGACCCCACAAATTTATACATCTCA
AACCTCCCACTGTCAATGGATGAGCAGGAACTGGAGGGGATGCTGAAGCCCTTTGGCCAGGTTATCTCCA
CCCGTATCCTTCGAGATACCAGTGGGACCAGCAGAGGTGTTGGCTTTGCAAGGATGGAGTCCACAGAGAA
GTGTGAAGCCATCATCACCCACTTTAATGGAAAATATATTAAGACACCCCCTGGAGTACCAGCCCCATCC
GATCCCTTGCTTTGCAAATTTGCTGATGGCGGGCCAAAGAAACGACAGAACCAAGGAAAATTTGTGCAAA
ATGGACGGGCTTGGCCAAGGAATGCAGACATGGGCGTCATGGCCTTGACCTATGACCCCACCACAGCTCT
TCAGAATGGGTTTTACCCAGCCCCCTATAACATCACCCCCAACAGGATGCTTGCTCAGTCTGCACTCTCC
CCATACCTTTCCTCTCCTGTGTCTTCGTATCAGAGAGTGACTCAGACATCTCCTCTACAAGTACCTAACC
CATCCTGGATGCACCACCATTCATACCTCATGCAGCCTTCAGGTTCAGTTCTGACACCAGGGATGGACCA
TCCCATTTCTCTCCAGCCTGCCTCCATGATGGGACCCCTTACCCAGCAACTGGGCCATCTCTCCCTCAGC
AGCACAGGCACGTATATGCCGACGGCTGCAGCTATGCAAGGAGCTTACATCTCCCAGTACACCCCTGTGC
CTTCTTCCAGTGTTTCAGTCGAGGAGAGCAGCGGCCAACAGAACCAAGTGGCAGTGGACGCACCCTCAGA
GCATGGGGTCTATTCTTTCCAGTTCAACAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC206581 protein sequence
Red=Cloning site Green=Tags(s)

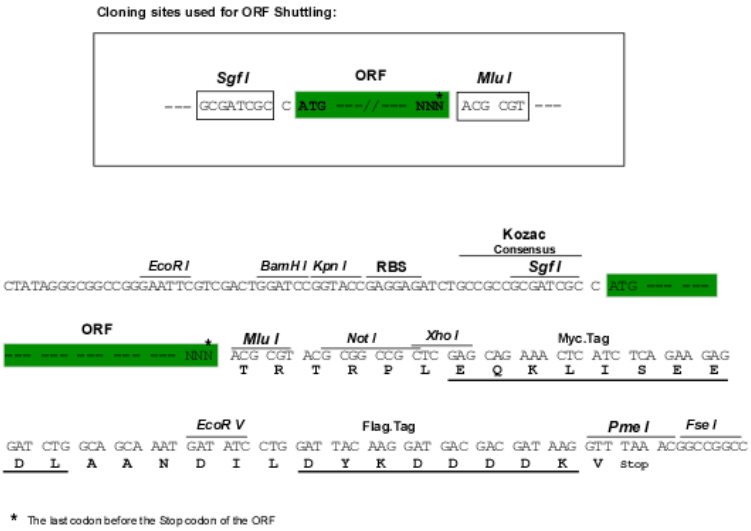
MLLSVTSRPGISTFGYNRNNKKPYVSLAQQMAPPSPSNSTPNSSSGSNGNDQLSKTNLYIRGLQPGTTDQ
DLVKLCQPYGKIVSTKAILDKTTNKCKGYGFVDFDSPSAAQKAVTALKASGVQAQMAKQQEQDPTNLYIS
NLPLSMDEQELEGMLKPFGQVISTRILRDTSGTSRGVGFARMESTEKCEAIITHFNGKYIKTPPGVPAPS
DPLLCKFADGGPKKRQNQGKFVQNGRAWPRNADMGVMALTYDPTTALQNGFYPAPYNITPNRMLAQSALS
PYLSSPVSSYQRVTQTSPLQVPNPSWMHHHSYLMQPSGSVLTPGMDHPISLQPASMMGPLTQQLGHLSLS
STGTYMPTAAAMQGAYISQYTPVPSSSVSVEESSGQQNQVAVDAPSEHGVYSFQFNK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6327_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002898

ORF Size: 1221 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_002898.1

RefSeq Size: 8504 bp

RefSeq ORF: 1224 bp

Locus ID: 5939

UniProt ID: Q15434

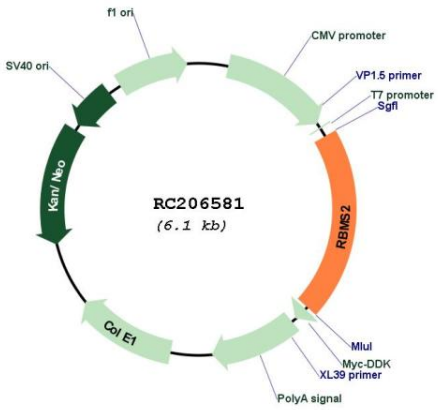
Cytogenetics: 12q13.3

Domains: RRM

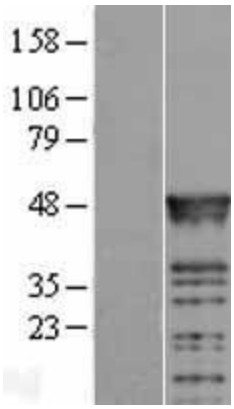
MW: 44 kDa

Gene Summary: The protein encoded by this gene is 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. The RBMS proteins have been implicated in such diverse functions as DNA replication, gene transcription, cell cycle progression and apoptosis. This protein was isolated by phenotypic complementation of cdc2 and cdc13 mutants of yeast and is thought to suppress cdc2 and cdc13 mutants through the induction of translation of cdc2. [provided by RefSeq, Jul 2008]

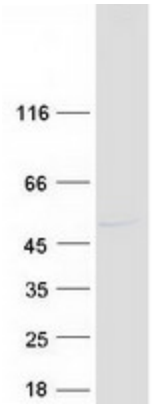
Product images:



Circular map for RC206581



Western blot validation of overexpression lysate (Cat# [LY419043]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206581 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RBMS2 protein (Cat# [TP306581]). The protein was produced from HEK293T cells transfected with RBMS2 cDNA clone (Cat# RC206581) using MegaTran 2.0 (Cat# [TT210002]).