

Product datasheet for RC209770

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Y14 (RBM8A) (NM_005105) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Y14 (RBM8A) (NM_005105) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: Y14

Synonyms: BOV-1A; BOV-1B; BOV-1C; C1DELq21.1; DEL1q21.1; MDS014; RBM8; RBM8B; TAR; Y14; ZNRP;

ZRNP1

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC209770 representing NM_005105

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGATTTCGCCATGGATGAGGATGGGGACGAGA GCATTCACAAACTGAAAGAAAAAGCGAAGAAAACGGAAGAAGCGCGCGGCTTTGGCTCCGAAGAGGGGTCCCG AGCGCGGATGCGTGAGGATTATGACAGCGTGGAGCAGGATGGCGATGAACCCGGACCACAACGCTCTGTT GAAGGCTGGATTCTCTTTGTAACTGGAGTCCATGAGGAAGCCACCGAAGAAGACATACACGACAAATTCG CAGAATATGGGGAAATTAAAAACATTCATCTCAACCTCGACAGGCGAACAGGATATCTGAAGGGGTATAC TCTAGTTGAATATGAAACATACAAGGAAGCCCAGGCTGCTATGGAGGGGACTCAATGGCCAGGATTTGATG GGACAGCCCATCAGCGTTGACTGGTGTTTTTGTTCGGGGGTCCACCAAAAGGCAAGAGGAGAGGTGGCCGAA GACGCAGCAGAAGTCCAGACCGGAGACTCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209770 representing NM_005105

Red=Cloning site Green=Tags(s)

MADVLDLHEAGGEDFAMDEDGDESIHKLKEKAKKRKGRGFGSEEGSRARMREDYDSVEQDGDEPGPQRSV EGWILFVTGVHEEATEEDIHDKFAEYGEIKNIHLNLDRRTGYLKGYTLVEYETYKEAQAAMEGLNGQDLM

GQPISVDWCFVRGPPKGKRRGGRRRSRSPDRRRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV





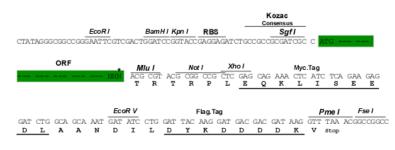
Chromatograms: https://cdn.origene.com/chromatograms/mk6358 a11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the OR

ACCN: NM_005105

ORF Size: 522 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 005105.5</u>

RefSeq Size: 2787 bp



 RefSeq ORF:
 525 bp

 Locus ID:
 9939

 UniProt ID:
 Q9Y5S9

 Cytogenetics:
 1q21.1

 Domains:
 RRM

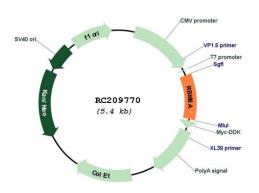
Protein Families: Druggable Genome

Protein Pathways: Spliceosome MW: 19.7 kDa

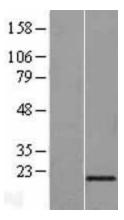
Gene Summary: This gene encodes a protein with a conserved RNA-binding motif. The protein is found

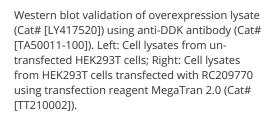
predominantly in the nucleus, although it is also present in the cytoplasm. It is preferentially associated with mRNAs produced by splicing, including both nuclear mRNAs and newly exported cytoplasmic mRNAs. It is thought that the protein remains associated with spliced mRNAs as a tag to indicate where introns had been present, thus coupling pre- and postmRNA splicing events. Previously, it was thought that two genes encode this protein, RBM8A and RBM8B; it is now thought that the RBM8B locus is a pseudogene. There are two alternate translation start codons with this gene, which result in two forms of the protein. An allele mutation and a low-frequency noncoding single-nucleotide polymorphism (SNP) in this gene cause thrombocytopenia-absent radius (TAR) syndrome. [provided by RefSeq, Jul 2013]

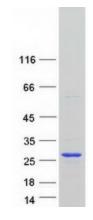
Product images:



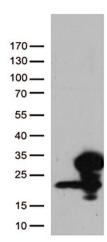
Circular map for RC209770







Coomassie blue staining of purified RBM8A protein (Cat# [TP309770]). The protein was produced from HEK293T cells transfected with RBM8A cDNA clone (Cat# RC209770) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RBM8A (Cat# RC209770, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RBM8A (Cat# [TA812498])(1:500). Positive lysates [LY417520] (100ug) and [LC417520] (20ug) can be purchased separately from OriGene.