

Product datasheet for **RG209770**

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: TurboGFP
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-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209770 representing NM_005105
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGACGTGCTAGATCTTCACGAGGCTGGGGCGAAGATTCGCCATGGATGAGGATGGGGACGAGA
GCATTCACAAACTGAAAGAAAAAGCGAAGAAACGGAAGGGTCGCGGCTTTGGCTCCGAAAGGGGTCCCG
AGCGCGGATGCGTGAGGATTATGACAGCGTGGAGCAGGATGGCGATGAACCCGGACCACAACGCTCTGTT
GAAGGCTGGATTCTTTGTAACCTGGAGTCCATGAGGAAGCCACCGAAGAAGACATACACGACAAATTCG
CAGAATATGGGGAAATAAAAACATTCATCTCAACCTCGACAGGCGAACAGGATATCTGAAGGGGTATAC
TCTAGTTGAATATGAAACATACAAGGAAGCCCAGGCTGCTATGGAGGGACTCAATGGCCAGGATTTGATG
GGACAGCCCATCAGCGTTGACTGGTGTGTTTGTTCGGGGTCCACCAAAGCAAGAGGAGAGGTGGCCGAA
GACGCAGCAGAAGTCCAGACCGGAGACGTGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209770 representing NM_005105
Red=Cloning site Green=Tags(s)
MADVLDLHEAGGEDFAMDEDGDESIHKLKEKAKKRKGRGFGSEEGSRARMREDYDSVEQDDEPGPQRSV
EGWILFVTGVHEATEEDIHDKFAEYGEIKNIHLNLDRTGYLKGTYLVEYETYKEAQAAMEGLNGQDLM
GQPISVDWCFVRGPPKGRGRRRSRSPDRRRR

TRTRPLE - GFP Tag - V

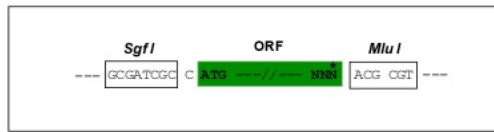


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Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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: [NM_005105.5](#)

RefSeq Size: 2787 bp

RefSeq ORF: 525 bp

Locus ID: 9939
 UniProt ID: [Q9Y5S9](#)

Cytogenetics: 1q21.1

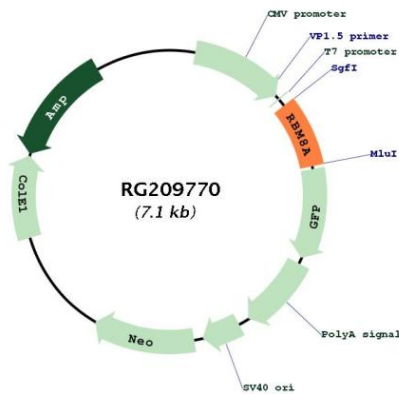
Domains: RRM

Protein Families: Druggable Genome

Protein Pathways: Spliceosome

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 post-mRNA 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 RG209770