OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC205492

ZCRB1 (NM_033114) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZCRB1 (NM_033114) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZCRB1
Synonyms:	MADP-1; MADP1; RBM36; SNRNP31; ZCCHC19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205492 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGGTGGATTGGCTCCAAGTAAGAGCACAGTGTATGTATCCAACTTGCCTTTTTCCCTGACAAACA
ATGACTTGTACCGGATATTTTCCAAGTATGGCAAAGTTGTAAAGGTTACCATCATGAAAGATAAAGATAC
CAGGAAGAGTAAAGGGGTTGCATTTATTTTATTTTTGGATAAAGACTCTGCACAAAACTGTACCAGGGCA
ATAAACAACAAACAGTTATTTGGTAGAGTGATAAAAGCAAGCATTGCTATTGACAATGGAAGAGCAGCTG
AGTTCATCCGAAGGCGAAACTACTTTGATAAATCTAAGTGTTATGAATGTGGGGAAAGTGGACACTTAAG
TTATGCCTGTCCGAAAAATATGCTCGGAGAACGTGAGCCTCAAAAGAAGAAAGAAAAAAAGAAAAAAAAG
AAAGCTCCTGAACCAGAAGAAGAAATTGAGGAAGTAGAAGAAAGTGAAGATGAAGGGGAGGATCCTGCTC
TTGACAGCCTCAGTCAGGCCATAGCATTCCAGCAAGCCAAAATTGAAGAAGAACAAAAAAAATGGAAACC
CAGTTCAGGAGTCCCCTCAACATCAGATGATTCAAGACGCCCAAGGATAAAGAAAAGCACATATTTCAGT
GATGAGGAAGAACTTAGTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US
View online »

Protein Sequence:

>RC205492 protein sequence
Red=Cloning site Green=Tags(s)

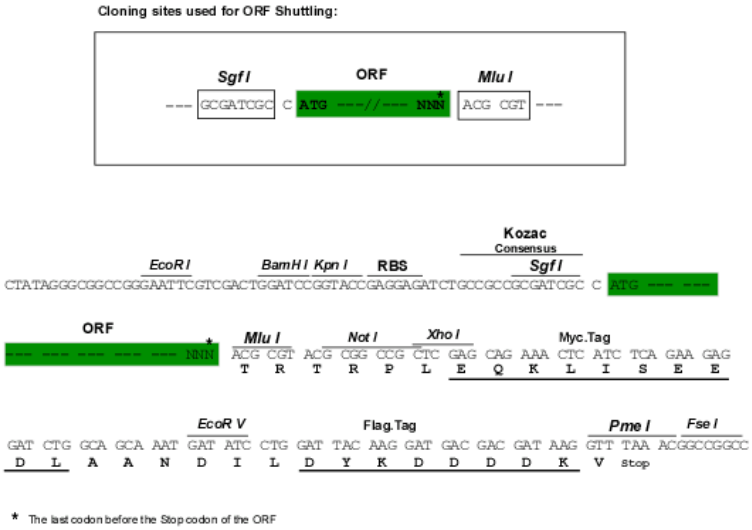
MSGGLAPSKSTVYVSNLPFSLTNNDLYRIFSKYGKVVKVTIMKDKDTRKSKGVAFILFLDKDSAQNCTRA
INNKQLFGRVIKASIAIDNGRAAEFIRRRNYFDKSKCYECGESGHLSYACPKNMLGEREPQKKKEKKKKK
KAPEPEEEIEEVEESEDEGEDPALDSLSQAIAFQQAKIEEEQKKWKPSSGVPSTSDDSRRPRIKKSTYFS
DEEELSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6312_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033114

ORF Size: 651 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).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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_033114.2

RefSeq Size: 1844 bp

RefSeq ORF: 654 bp

Locus ID: 85437

UniProt ID: Q8TBF4

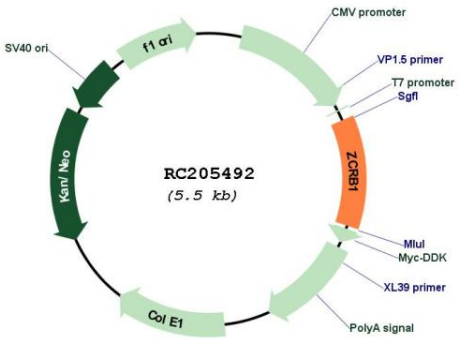
Cytogenetics: 12q12

Domains: RRM, zf-CCHC, PAP_assoc, NTP_transf_2, RRM_1

MW: 24.6 kDa

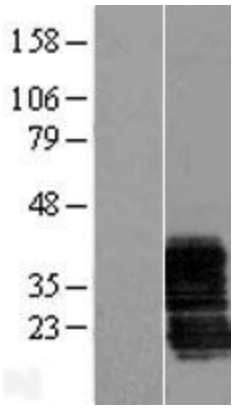
Gene Summary: Pre-mRNA splicing is catalyzed by the spliceosome. U12-type spliceosome binds U12-type pre-mRNAs and recognizes the 5' splice site and branch-point sequence. U11 and U12 snRNPs are components of U12-type spliceosome and function as a molecular bridge connecting both ends of the intron. The protein encoded by this gene contains a RNA recognition motif. It was identified as one of the protein components of U11/U12 snRNPs. This protein and many other U11/U12 snRNP proteins are highly conserved in organisms known to contain U12-type introns. These proteins have been shown to be essential for cell viability, suggesting the key roles in U12-type splicing. [provided by RefSeq, Jul 2008]

Product images:

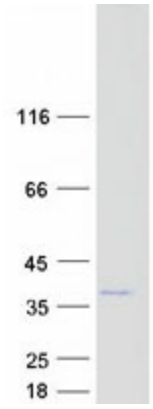


Circular map for RC205492

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Western blot validation of overexpression lysate (Cat# [LY409719]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205492 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZCRB1 protein (Cat# [TP305492]). The protein was produced from HEK293T cells transfected with ZCRB1 cDNA clone (Cat# RC205492) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US