

Product datasheet for **MR216072**

Rrbp1 (NM_133626) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rrbp1 (NM_133626) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rrbp1
Synonyms:	1700087N07Rik; 5730465C04Rik; ES/130; mKIAA1398; mRRp0; mRRp1.8; mRRp10; mRRp15a; mRRp15b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216072 representing NM_133626, **codon optimized**.
Due to the complexity of NM_133626, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

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

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATATATACGACACGCAGACTCTTGGCGTGGTAGTGTTCGGAGGATTTATGGTAGTGAGTGCATAG
 GAATCTTCCTCGTTTCTACATTCAGTATGAAAGAGACATCCTACGAGGAAGCGCTTGCCAACCAGCGAAA
 GGAGATGGCTAAGACACATCATCAGAAAGGCGAGAAAAAAGGAGAAGACAGTCGAGAAGAAAGGT
 AAAACCAAAAAAGGAGGAGAAGCCAAATGGAAAGATTCTGAGCATGACTTGGATCCTAATGTCTACTA
 TCATACTGAAGGAGCCAGTGAGAGTCTCTGCCGTGCGCCGTGCGACCTACCTCTGTGCACTCATCTGTCCG
 ACATACACCGATCGCAACGGTACCAGCGATGCCACAGGAAAACTGGCGTCTTACCAAAGGATAGGAAA
 AAGAAAGAGAAGAAAGTGGCAAAAGTTGAACCTGCCGTGTCCAGCATCGTCAATCAATACAGGTCTTGG
 CCAGCAAGTCTGCCATCCTCGAGGCGACTCCAAAGGAGGTGCCAATGGTTGCTGTACCGCCAGTCGGTTC
 CAAGGCCTCAAGTCCAGCCACCAGCTCTCAAGGCAAGAAAGGACAAGGAGCACAGAATCAGGCCAAGAAA
 GGCGAAGGAGCACAAAACCAAGGTAAGAAAGGAGAAGGCGCGCAGAATCAGGCCAAAAAGGCGAAGGAG
 CTCAGAACCAGGCTAAAAAGGTGAAGGTGCTCAGAACCAAGGCAAAAAAGGAGAAGGCGCTCAGAATCA
 AGCAAAGAAAGGCGAAGGCGCCAAAATCAGGCCAAGAAAGGAGAAGGCGCTCAGAACCAAGGAAAAAA
 GGTGAAGGAGCACAGAACCAAGGCAAAAAAGGCGAAGGTGCACAGAATCAGGCCAAAGAAAGGAGAAGGAG
 CGCAGAACCAGGCCAAAAAGGTGAAGGTGCTCAGAACCAAGGCAAAAAAGGCGAAGGCGCTCAAAAACCA
 GAGCAAAAAAGGAGAAGGAGCTCAGAACCAGGCGAAGAAAGGAGAAGGTGGCAAAAACAGGCTAAAAAA
 GGAGAAGGTGCACAGAACCAGGCTAAAAAGGCGAAGGAGCGCAGAATCAGGCCAAGAAAGGAGAAGGAG
 TGCAGAATCAGGCCAAAAAGGAGTCAAGGTGCACAGAATCAAGGAAAGAAAGGAGAAGCTAATCAGAA
 TCAGGCCAAAAAGGTGAAGGCGGTGAGAACCAAAAGAAAGGTGAAGGACCGCAGAACCAAGGAAAA
 AAAGGCGAGGCAGCGCAGAAGCAGGATAAAAAATAGAAGGAGCTCAGAACCAAGGCAAGAAACCAGAAG
 GAACAAGCAATCAAGGCAAGAAAGGTGAAGGCGCTCAGAATCAAGGTAAAAAGGTGAAGGAGCACAGAA
 TCAAGGAAAGAAAGGCGAAGGAGCACAAAATCAAGGAAAGAAAGGCGAAGGAGCACAAAATCAAGGTAAA
 AAAGGCGAAGGAGCTCAAAACCAAGGTAAAGAAAGGAGAAGGCGCACAGAATCAAGGCAAGAAAGGAGAAG
 GCGCACAGAATCAAGGTAAAGAAAGGCGAAGGTCCACAGAACCAAGCCAAGAAAGGAGAAGGAGCTCAGAA
 TCAAGGTAAAGAAAGGAGAAGGAGCACAGAATCAAGGCAAGAAAGGAGAAGGAGCGCAGAACCAAGGAAAAG
 AAAGCCGAAGGAGTGCAAGCCAGTCCAAGAAAGGTGAAGGAACAAAAACCAAGGTAAAGAAAGGAGACG
 GCAATCCAACCAAGGCAAGAAAGGCGAAGGTGCTTCTAACCAGAATAGAAAAACGGACTGTGGCTAA
 CCAAGGCACTAAGCAGGAAGGCGTGTCAAACAGGTTAAAAAGTCCGAAGGAAGTCTAACCAAGGAAAA
 AAGGCGGAAGGCGCCAAAACCAAGGAAAAAAGACCGGCTCTCCAAGTCAGGCCAAAAAGTTGATG
 CAGCTGCCAATCAAGGCAAAAAATCAGAGATGGCGCCTGCTCAAGGTGAGAAGGCAAGCATGGTGCAGTC
 TCAGGAAGCGCCAAAGCAGGATGCTCTGCCAAAAAGAAATCAGGCAGCGCAAGAAAGGTGAGCCAGTC
 TGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216072 representing NM_133626
 Red=Cloning site Green=Tags(s)

MDIYDTQTLGVVFGGMVVSIAIGIFLVSTFSMKETSYEEALANQRKEMAKTHHQKGEKKKKEKTVEKKG
 KTKKKEEKPNKGIPEHLDLPNVTIILKEPVRVSAVAVAPTSVHSSVGHPTIATVPAMPQEKLASSPKDRK
 KKEKKVAKVEPAVSSIVNSIQVLASKSAILEATPKEVPMVAVPPVGSKASSPATSSQGGKQGAQNQAKK
 GEGAQNQGGKGEAQNQAKKGEAQNQAKKGEAQNQGGKGEAQNQAKKGEAQNQAKKGEAQNQAKKGEAQNQGGK
 GEGAQNQGGKGEAQNQAKKGEAQNQAKKGEAQNQGGKGEAQNQAKKGEAQNQAKKGEAQNQAKKGEAQNQGGK
 GEGAQNQAKKGEAQNQAKKGEAQNQAKKGEAQNQGGKGEAQNQAKKGEAQNQAKKGEAQNQAKKGEAQNQGGK
 KGEAAQKQDKKIEGAQNQGGKPEGTSNQGKGEAQNQGGKGEAQNQGGKGEAQNQGGKGEAQNQGGK
 KGEAQNQGGKGEAQNQGGKGEAQNQGGKGEAQNQGGKGEAQNQGGKGEAQNQGGKGEAQNQGGK
 KAEGVQSQSKKGEAQNQGGKGEAQNQGGKGEAQNQGGKGEAQNQGGKGEAQNQGGKGEAQNQGGK
 KAEGAPNQGGKDGSPSQAKKVDAAANQGKSEMAPAQQQKASMVQSQAEPKQDAPAKKSGSRKKGEPV
 C

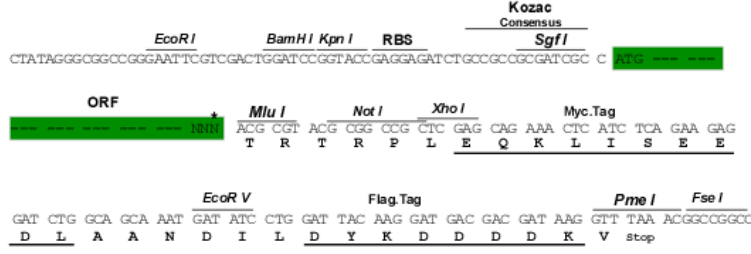
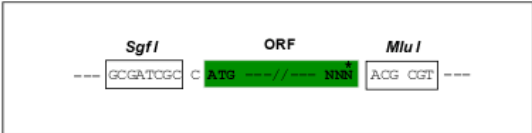
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

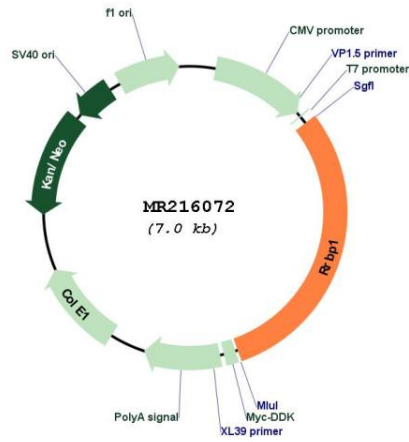
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_133626
ORF Size:	2103 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:	<ol style="list-style-type: none">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_133626.1 , NM_133626.2 , NP_598329.1
RefSeq Size:	2706 bp
RefSeq ORF:	2106 bp
Locus ID:	81910
UniProt ID:	Q99PL5
Cytogenetics:	2 G1
MW:	72.5 kDa
Gene Summary:	Acts as a ribosome receptor and mediates interaction between the ribosome and the endoplasmic reticulum membrane.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216072