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 MG216072

Rrbp1 (NM_133626) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Rrbp1
Synonyms:	1700087N07Rik; 5730465C04Rik; ES/130; mKIAA1398; mRRp0; mRRp1.8; mRRp10; mRRp15a; mRRp15b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG216072 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATATATACGACACGCAGACTCTTGGCGTGGTAGTGTTCGGAGGATTTATGGTAGTGAGTGCGATAG
GAATCTTCCTCGTTTCTACATTCAGTATGAAAGAGACATCCTACGAGGAAGCGCTTGCCAACCAGCGAAA
GGAGATGGCTAAGACACATCATCAGAAAGGCGAGAAAAAAAAAAAAGGAGAAGACAGTCGAGAAGAAAGGT
AAAACCAAAAAAAAGGAGGAGAAGCCAAATGGAAAGATTCCTGAGCATGACTTGGATCCTAATGTCACTA
TCATACTGAAGGAGCCAGTGAGAGTCTCTGCCGTCGCCGTCGCACCTACCTCTGTGCACTCATCTGTCGG
ACATACACCGATCGCAACGGTACCAGCGATGCCACAGGAAAAACTGGCGTCTTCACCAAAGGATAGGAAA
AAGAAAGAGAAGAAAGTGGCAAAAGTTGAACCTGCCGTGTCCAGCATCGTCAATTCAATACAGGTCTTGG
CCAGCAAGTCTGCCATCCTCGAGGCGACTCCAAAGGAGGTGCCAATGGTTGCTGTACCGCCAGTCGGTTC
CAAGGCCTCAAGTCCAGCCACCAGCTCTCAAGGCAAGAAAGGACAAGGAGCACAGAATCAGGCCAAGAAA
GGCGAAGGAGCACAAAACCAAGGTAAGAAAGGAGAAGGCGCGCAGAATCAGGCGAAAAAAGGCGAAGGAG
CTCAGAACCAGGCTAAAAAAGGTGAAGGTGCTCAGAACCAAGGCAAAAAAGGAGAAGGCGCTCAGAATCA
AGCAAAGAAAGGCGAAGGCGGCCAAAATCAGGCCAAGAAAGGAGAAGGCGCTCAGAACCAAGGAAAAAAA
GGTGAAGGAGCACAGAACCAAGGCAAAAAAGGCGAAGGTGCACAGAATCAGGCAAAGAAAGGAGAAGGAG
CGCAGAACCAGGCCAAAAAAGGTGAAGGTGCTCAGAACCAAGGCAAAAAAGGCGAAGGCGCTCAAAACCA
GAGCAAAAAAGGAGAAGGAGCTCAGAACCAGGCGAAGAAAGGAGAAGGTGGCCAAAACCAGGCTAAAAAA
GGAGAAGGTGCACAGAACCAGGCTAAAAAAGGCGAAGGAGCGCAGAATCAGGCCAAGAAAGGAGAAGGAG
TGCAGAATCAGGCCAAAAAAGGAGTCGAAGGTGCACAGAATCAAGGAAAGAAAGGAGAAGCTAATCAGAA
TCAGGCAAAAAAAGGTGAAGGCGGTCAGAACCAAACAAAGAAAGGTGAAGGACCGCAGAACCAAGGAAAA
AAAGGCGAGGCAGCGCAGAAGCAGGATAAAAAAATAGAAGGAGCTCAGAACCAAGGCAAGAAACCAGAAG
GAACAAGCAATCAAGGCAAGAAAGGTGAAGGCGCTCAGAATCAAGGTAAAAAAGGTGAAGGAGCACAGAA
TCAAGGAAAGAAAGGCGAAGGAGCACAAAATCAAGGAAAGAAAGGCGAAGGAGCACAAAATCAAGGTAAA
AAAGGCGAAGGAGCTCAAAACCAAGGTAAGAAAGGAGAAGGCGCACAGAATCAAGGCAAGAAAGGAGAAG
GCGCACAGAATCAAGGTAAGAAAGGCGAAGGTCCACAGAACCAAGCCAAGAAAGGAGAAGGAGCTCAGAA
TCAAGGTAAGAAAGGAGAAGGAGCACAGAATCAAGGCAAGAAAGGAGAAGGAGCGCAGAACCAAGGAAAG
AAAGCCGAAGGAGTGCAAAGCCAGTCCAAGAAAGGTGAAGGAACACAAAACCAAGGTAAGAAAGGAGACG
GCAATCCAAACCAAGGCAAGAAAGGCGAAGGTGCTTCTAACCAGAATAGAAAAACGGACACTGTGGCTAA
CCAAGGCACTAAGCAGGAAGGCGTGTCAAACCAGGTTAAAAAGTCCGAAGGAAGTCCTAACCAAGGAAAA
AAGGCGGAAGGCGCGCCAAACCAAGGAAAAAAAAAAGACGGCTCTCCAAGTCAGGCCAAAAAAGTTGATG
CAGCTGCCAATCAAGGCAAAAAATCAGAGATGGCGCCTGCTCAAGGTCAGAAGGCAAGCATGGTGCAGTC
TCAGGAAGCGCCAAAGCAGGATGCTCCTGCCAAAAAGAAATCAGGCAGCCGCAAGAAAGGTGAGCCAGTC
TGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

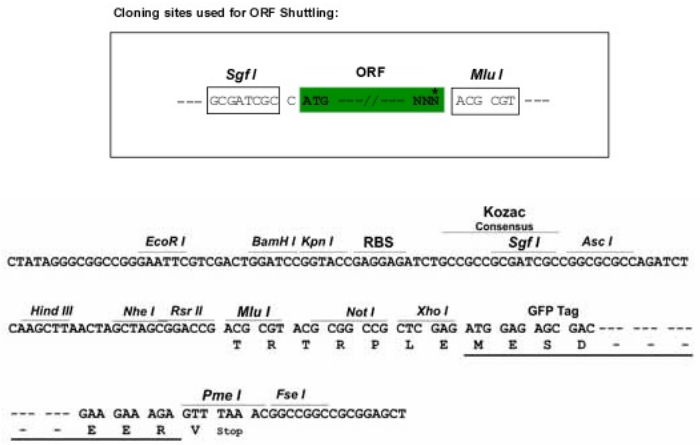
>MG216072 representing NM_133626
Red=Cloning site Green=Tags(s)

MDIYDTQTLGVVVFGGFMVVSAIGIFLVSTFSMKETSYEEALANQRKEMAKTHHQKGEKKKKEKTVEKKG
KTKKKEEKPNGKIPEHDLDPNVTIILKEPVRVSAVAVAPTSVHSSVGHTPIATVPAMPQEKLASSPKDRK
KKEKKVAKVEPAVSSIVNSIQVLASKSAILEATPKEVPMVAVPPVGSKASSPATSSQGKKGQGAQNQAKK
GEGAQNQGKKGEGAQNQAKKGEGAQNQAKKGEGAQNQGKKGEGAQNQAKKGEGGQNQAKKGEGAQNQGKK
GEGAQNQGKKGEGAQNQAKKGEGAQNQAKKGEGAQNQGKKGEGAQNQSKKGEGAQNQAKKGEGGQNQAKK
GEGAQNQAKKGEGAQNQAKKGEGVQNQAKKGVEGAQNQGKKGEANQNQAKKGEGGQNQTKKGEGPQNQGK
KGEAAQKQDKKIEGAQNQGKKPEGTSNQGKKGEGAQNQGKKGEGAQNQGKKGEGAQNQGKKGEGAQNQGK
KGEGAQNQGKKGEGAQNQGKKGEGAQNQGKKGEGPQNQAKKGEGAQNQGKKGEGAQNQGKKGEGAQNQGK
KAEGVQSQSKKGEGTQNQGKKGDGNPNQGKKGEGASNQNRKTDTVANQGTKQEGVSNQVKKSEGSPNQGK
KAEGAPNQGKKKDGSPSQAKKVDAAANQGKKSEMAPAQGQKASMVQSQEAPKQDAPAKKKSGSRKKGEPV
C

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:
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_133626.2, NP_598329.1

RefSeq Size: 2706 bp

RefSeq ORF: 2106 bp

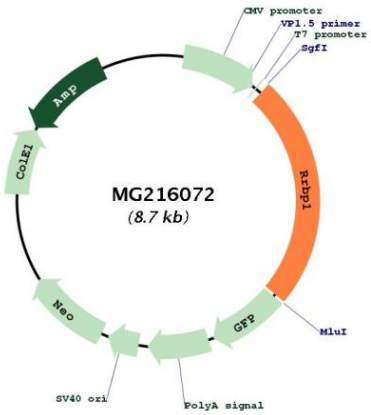
Locus ID: 81910

UniProt ID: Q99PL5

Cytogenetics: 2 G1

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 MG216072