

Product datasheet for **MR210635**

Rbsn (NM_030081) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbsn (NM_030081) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbsn
Synonyms:	5330426D11Rik; Zfyve20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210635 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCATCTCTTGATGACCCAGGGGAGGTGAGGGAAGGCTTCCTGTGCCCTTTGTGCCTGAAGGACCTTC
 AGTCTTTCTATCAACTTCAGTCACATTATGAGGAAGAACAACCTTGAAGATCGTGATGTCAAAGGGCAAAT
 TAAAAATCTTGTTTCAAGAGGCTAGGAAAGCAAAGAACAAGTTGTTGAAACGAGAAGGAGATGATCGAGTG
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 CGTGGAGAGACAGGCTGCTCTGGAGTACGGCGGAAGCTTGAGGAAAGGCAGAGTGGTTTGGCATCTCAT
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 CACTGTGAGAAGGTGAGGACAGAGTGAAGATCCTGACCTCTCCTCCAGCAGATCTATAACATTACATC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210635 protein sequence
 Red=Cloning site Green=Tags(s)

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MASLDDPGEVREGFLCPLCLKDLQSFYQLQSHYEEHLEDKRDVKGQIKNLVQKARKAKNLLKREGDDR
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LRLQRMIRYSATLQVQEKLLGLMSLPTKEQFEELKKKRKQDLEQKRTVERQAALSRKLEERQSGLASH
TANGDVRSLRGIPPLRKAEGWLPLSEGQGSQSEDPDPLLQQIYNIITSFIRQAKAAGRTDEVRTLQENLRQ
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SRGPHIDLQSLDQDSSPVQSSTAPDILTPGSALAPMHLWSGPPALGQETLPQSTMSQQSDKASLNPFDE
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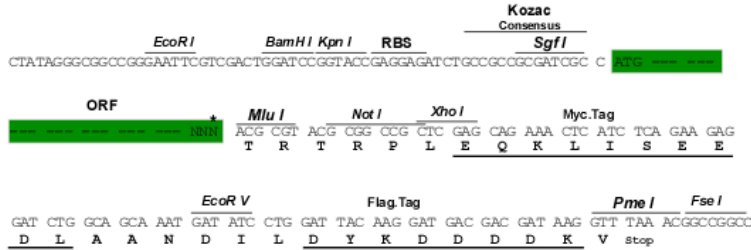
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_030081

ORF Size: 2352 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.

RefSeq: [NM_030081.1](#)

RefSeq Size: 5242 bp

RefSeq ORF: 2352 bp

Locus ID: 78287

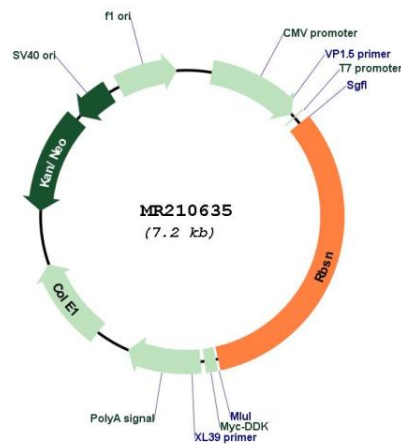
UniProt ID: [Q80Y56](#)

Cytogenetics: 6 D1

MW: 88.5 kDa

Gene Summary: Rab4/Rab5 effector protein acting in early endocytic membrane fusion and membrane trafficking of recycling endosomes. Required for endosome fusion either homotypically or with clathrin coated vesicles. Plays a role in the lysosomal trafficking of CTSD/cathepsin D from the Golgi to lysosomes. Also promotes the recycling of transferrin directly from early endosomes to the plasma membrane. Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate (PtdInsP3). Plays a role in the recycling of transferrin receptor to the plasma membrane (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210635