

## Product datasheet for **MG210635**

### **Rbsn (NM\_030081) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rbsn (NM_030081) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rbsn
Synonyms:	5330426D11Rik; Zfyve20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210635 representing NM\_030081  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCATCTCTTGATGACCCAGGGGAGGTGAGGGAAGGCTTCCTGTGCCCTTTGTGCCTGAAGGACCTTC  
 AGTCTTTCTATCAACTTCAGTCACATTATGAGGAAGAACAACCTTGAAGATCGTGATGTCAAAGGGCAAAT  
 TAAAAATCTTGTTGAGAAAGGCTAGGAAAGCAAAGAACAAGTTGTTGAAACGAGAAGGAGATGATCGAGTG  
 GAACCAGGGACCAAGGATATGAATCATTAGTTATGGTGGGTTGATCCTTACATGTGGGAACCCCAAG  
 AGCTTGGTGCTATGAGAAGCCATCTTTCTGACTTCAAAAAACATCGTGCTGCAAGAATTGACCACTATGT  
 TGTTGAAGTCAATAAATTAATCATCAGGTTGAAAAAGCTTACTGCATTTGACAGAACAAATACTGAGACT  
 TCAAAGATTAGAGCAATAGAAAAGTCCGTGGTGCCTTGGGTCAATGACCAGGATGTCCCCTTCTGTCCAG  
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 CACTGTGAGAAGGTGAGGACAGAGTGAAGATCCTGACCTCTCCTCCAGCAGATCTATAACATTACATC  
 GTTCATCAGGCAGGCCAAGGCTGCAGGCCGCACAGATGAGGTGCGCACACTTCAGGAGAACCTGCGGCAG  
 CTGCAGGATGAGTATGACCAGCAGCAGACTGAGAAGGCCATTGAGCTGTCCCGAAGCAGGCCGAGGAGG  
 AGGAGCTGCAGCGGGAGCAGCTACAGATGCTCCGCAAGCGAGAGCTTGAACGAGAACAGGAGCAGTTCT  
 GGCAGCATCCCTGCAAACACGGACTCGTGTCTAGAACTCCGAGAAGTTATACCTTCCAATTGGAGGCC  
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 GACGACCTCTCCAGCCCTACAGAGGGTGTATCAGCCCTGCTGCTGTAGAGGCTTTCTGGGCCCTCCAG  
 CTGCTGTACCAAAGAATAACAATCCTTTTGAAGAGATGCTGAGGAAGAGGAGGTGGCAGAGTTGGGGGC  
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 GCCAGTCCAGCCGCCCTGGAAACCTTTTGAAGAGTGGCCCTCCACCAACCCCTTCGAGGTGGACAGTG  
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 TTACATCTTTGATGCCAAGCAGTGTGGGCGAATGGACGAGGTTGAGGTTCTAACGGAGAACCTCCGGGAG  
 CTGAAGTGCACCCCTGGCTAAGCAGAAGGGGCCCTAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210635 representing NM\_030081  
 Red=Cloning site Green=Tags(s)

```
MASLDDPGEVREGFLCPLCLKDLQSFYQLQSHYEEHLEDRDVKGQIKNLVQKARKAKNLLKREGDDR
EPGTQGYESFSYGGVDPYMWEPQELGAMRSHLSDFKKHRAARIDHYVVEVNKLIIRLEKLTAFDRTNTET
SKIRAIIEKSVVPWVNDQDVPFCPCDGNKFSIRNRRHHCRLCGSIMCKKCMELIGLPLAHKLTSAKDSLS
THTSPSQSPNSVHGSRRSISSMSSVSVLDEKDDDRIRCCTHCKDKLLKREQQMDEKEHTPDIVKLYEK
LRLCMEKVDQKAPEYIRMAASLNAGETTYNLEHANDLRVEVQKVYELIDALSKKILTLGLNQDPSHPNT
LRLQRMIRYSATLFFVQEKLLGLMSLPTKEQFEELKKRQDLEQKRTVERQAALSRKLEERQSGLASH
TANGDVRSLRGI PPPLRKAEGWLPLSEGQGSSEDPDLLQQIYINITSFIRQAKAAGRTDEVRTLQENLRQ
LQDEYDQQTEKAIELSRQAEELQREQLQMLRKRELEREQFLAASLQTRTRVLELREVIPFQLEA
SRGPHIDL SYSLDQDSSPVQSSTAPDILTPGSALAPMHLWSGPPALGQETLPQSTMSQQSDKASLNPFDE
DDLSSPTEGAISPAAVEAFLGPPAAVTKEYNPFEEAEAEVAVELGAGNPFDPDSPAAPNPFDEDDGPRP
ASPAAPGNPFEECPSTNPFVSDSGMEAEHIEEELLQQIDNIKAYIFDAKQCGRMDEVEVLTENLRE
LKCTLAKQKQAPN
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_030081

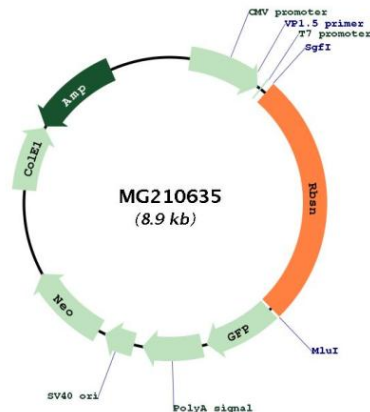
**ORF Size:** 2349 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_030081.3</a></u>
<b>RefSeq Size:</b>	5242 bp
<b>RefSeq ORF:</b>	2352 bp
<b>Locus ID:</b>	78287
<b>UniProt ID:</b>	<u><a href="#">Q80Y56</a></u>
<b>Cytogenetics:</b>	6 D1
<b>Gene Summary:</b>	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 MG210635