

## Product datasheet for **RG214265**

### **AP5B1 (NM\_138368) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | AP5B1 (NM_138368) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | AP5B1                                    |
| Synonyms:                 | AP-5; PP1030                             |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**ORF Nucleotide Sequence:**

>RG214265 representing NM\_138368  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTACCCTGCGCAGCTGTGGCCCGACGCCTCTGCGGCCGAAGTGGCCGCCACCTCCCTGTTGGACA  
 CCTTGGTCTCCTACCCCGCGGCCCTCAGCTCTCCGTCGGCCACTGCTGCTGGCGGCCACCACTGCCCT  
 GGCGGGGGCGCGCGCTGGGCCACCTCGGGCGCCTCCTGCCGGCTCTGCCCTACTGCTCGGCCTG  
 GCCCGGGTAGCGATCTGGGGCAGGCTTTGTCCCGCCTCGGAACAGCGCCCTTGAGGCCACGGCT  
 GCGAGTGCCTGCGAGAGCTAGAGAGCTGCAAGCCCGGGCTGCTGGGGGGCTCCCTGGGGTTGCTCGGGG  
 CCTGCTGGGGCAGGAAGGCCCTGTCCAGCCACTCAGCCTGTTGCTGGCCCTCGCTTTCGCAACACCTTG  
 GTGCTCCAGTCCCGGTTGGGGTGGCTGGGGGGACTGCTCACGATAAGGTCTCCCAACTGGGGTG  
 GTCCTGGGATTGACACTAGTGGAGGAGGGCGATGGACGCCTCAGCCCGAGCACCCAGCTGGCCGGC  
 AGCTGAGGAGGGAGAGGGGGAGCGTAGCCTTACAGCACGAGAGCACAGCCCTGAGGAGGCCGGGAGCTG  
 CGGGCTCGGGTATCCAGCTTCTGGACACTCCTATCTGCTCACTCCTGTGGCCAGGCCAGCTCCTGT  
 GGCTGCTGGGCTGGGCCCTGCGGGTCTGCAGGGACAGCCACCGCACTCTTCAAGCCGAGCTGGTACG  
 GCTGCTAGGCACAGCACAGCTGACACTGTTGCACGCCATGCTTGCCTCAAGCGGCCCTTGGTGGAGCC  
 TTGTTACAGCCAGGATGAAGCGTTGCTGCTCCCGCGCTCACCTTGGCTGCCAGCACCTGCTCTGC  
 CTCGCCACCCATCTCTTTTACCTTACTGCTCCTGAGCTTCCCTGAGAACTGGCCGCTGGGCCCTGA  
 AGGTGAGGAGGCTGCCCCACTGCTGCTAGGGCCCCAGCTATGCCGTGGTCTCCTGCCAGTCTCTGCAT  
 GACCAATGGCCCTCCTGGCCCGCTGCATTTACTGTGCTGCTGTGCCGAGGAGGAAGAAGAGGAGA  
 AAGGCCAGCTTCCAAGCCACGGCACTACCTGGAAGAGCTGCTGGCTGGCTTGGCGAGCCGGCAGCCCT  
 GGATGGGGGCCCGGGCTTGGCACTCTGCTTCCAGGCTCGTATCTGGTGGCTGCTGCCTGGCT  
 GGGCAACCTACGGTGTGACCCCTTGATCCAGGACTGGCCAGCTGTACCAAGCCCGGCCATGCTGG  
 CTCCTTGTGGACCTTTGGATCAGGTGGACTCTGAGCTGAGGGAGCCCTGAAGGTGGTGTGCG  
 GCAGGTGGTGTCCAGGCCGGCAGGGATGAAGCTTTTGTGGCACCTGCAATGCTGGCAAAGGTG  
 GCAGATGGAGATGCCAGAGTGTACCCTCAACTTTTACAGGCCGGCTGCCACTGCACGAAGTGGG  
 ACCTACAGCAGGGCTGCTGCGGTCTGCCGGCGCTGCTGCGGGCAGGGGTGAGGGGGCGCCTGGTCGA  
 CTTGCTGCAGGTGCTGGCCAGCAGCTGGAGACCCTGATGGGCGTGACCAGCCCGCTCTACTACATC  
 CTGCTGGCACACCTGGCAGCACCAAGTTGGGGTGGCCCTGGGCCCTCGCTTGGCGACCTGCACTGG  
 CCTCTTCACTGGTGGCCGAGAACCAGGGCTTTGTGGCAGCACTGATGGTGCAGGAGGCACCGCCCTGGT  
 ACGGCTGAGCCTGGGGTCCCATCGGGTCAAGGGCCCACTCCCAAGTGTGAAGCTCCAGCCGAGGGCGCTG  
 GAGCCATCTACTCTCTGGAGCTGCGCTTCCGTGTGGAAGGACAGCTGTATGCACCCCTGGAGGCTGTCC  
 ATGTGCCCTGCCTGTGCTTGGCCGCCCTGCCCGCCCTGCTCCTGCCTCTGCAGCCCCGATGCCCGGC  
 CCCCACAGGCTGGATGTCCATGCCCTTACACCACATCCACTGGTCTCACGTGCCATGCCCACTTGCCA  
 CCCCTGTTGTAAGTCTTGGCAGCTCTTCTGCCTTTCCCGCAGCCTCCAGAGGGGGCCGGCTGGGCT  
 TCTTTGAGGAGCTCTGGGATTCTGCTGCCAGAGGGTGTGAGAGTCGTGTGGTGTCCACTTGGGCC  
 ACAGGGCCTGGAGGCTTGGTGTCCCACCCTGGAGCCTTTTGGTGGTGGCCAGCCTCCTACCAGC  
 TACTGTGTAGCAATCCACTGCCCGGACTCAAAGCTGCTGCTGCGGCTGGAGGGGCCCTGGCAGATG  
 GAGTGCCTGTGGCCCTGCGGACCGATGACTGGGCCGTGCTGCCCTGGCGGGGACTACCTCCGTGGGCT  
 GGCGGCTGCTGTC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

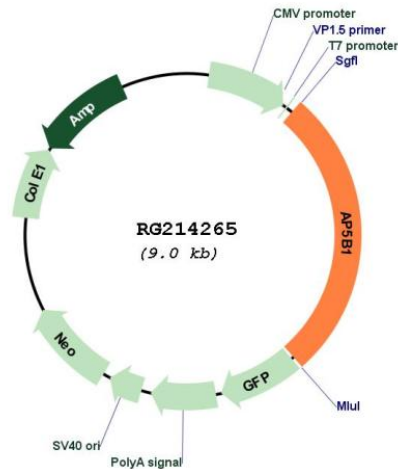
Protein Sequence: >RG214265 representing NM\_138368  
Red=Cloning site Green=Tags(s)

MEYPAQLWPDASAAEVAATSLLDTLVLLPPRPSALRRPLLLAATTALAAGGALGPTSGASCRLPLLLGL  
AAGSDLGRGFVPASEQRPLQATACECLRELESCKPGLLGGSLGLLRGLLGQEGPVQPLSLLLALALRNTL  
VLQSRVGAGLGGLLTDKVSPTGGGPWDWTLVEEGDGRLLQAPSWPAAEEGEGERSLTAREHSPEEAREL  
RAAVIQLLDTSYLLTPVAQAQLLWLLGWALRGLQGPPALFKPQLVRLLGTAQLTLLHAMLAKAAFGEA  
LFTAQDEALLRRLTLAAQHPALPPPTHLYLHCVLSFPENWPLGPEGEEAAPLLLGPQLCRGLLPSLLH  
DPMALLARLHLLCLLCAEEEEEEKQLPSPRHYLEELLAGLRQRAALDGGPRALATLCFQASYLVACCLA  
GQPTVLTPLIHGLAQLYQARPLAPHFVDLLDQVSELREPLKVVLRQVVVSRPGRDEALCWHLQMLAKV  
ADGDAQSATLNFQAAAAHCTNWDLQQGLLRVCRALLRAGVRGGLVDLLQVLRQLEDPDGRDHARLYYI  
LLAHLAAPKLGVALGPSLAAPALASSLVAENQGFVAALMVQEAPALVRLSLGSHRVKGPLPVLKLQPEAL  
EPIYSLELRFRVEGQLYAPLEAVHVPCLCPGRPARPLLLPLQPRCPAPARLDVHALYTTSTGLTCHAHLP  
PLFVNFADLFLPFPQPPEGAGLGFEEELWDSCLPEGAESRVWCPLGPQGLEGLVSRHLEPFVVVAQPPTS  
YCVAIHLPPDSKLLLRLAALADGVPVALRTDDWAVLPLAGDYLRGLAAAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



**Plasmid Map:**


**ACCN:** NM\_138368

**ORF Size:** 6592 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\\_138368.3](#), [NP\\_612377.3](#)

**RefSeq Size:** 4450 bp

**RefSeq ORF:** 2637 bp

**Locus ID:** 91056

**UniProt ID:** [Q2VPB7](#)

**Cytogenetics:** 11q13.1

**Gene Summary:** As part of AP-5, a probable fifth adaptor protein complex it may be involved in endosomal transport.[UniProtKB/Swiss-Prot Function]