

## Product datasheet for **MG210132**

### Tap2 (NM\_011530) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Tap2 (NM_011530) Mouse Tagged ORF Clone  |
| Tag:                      | TurboGFP   |
| Symbol:                   | Tap2   |
| Synonyms:                 | ABC18; Abcb; Abcb3; AI462429; APT2; Ham; Ham-; Ham-2; Ham2; jas; MTP; MTP2; PS; PSF2; RING11; Tap; Tap-2; Y1 |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |



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**ORF Nucleotide Sequence:**

>MG210132 representing NM\_011530  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGCTGTCTACCTGAGGCCCTGGGTCTCTCTGCTGTGGCGGACATGGCTTTACTTGGGTTGCTAC  
 AAGGATCTCTGGGAAATCTGCTTCCCCAGGGGCTGCCAGGACTCTGGATAGAGGGCACCCCTGCGACTTGG  
 AGTGTCTGTGGGACTGCTAAAAGTGGGAGAGCTGCTGGGACTTGTGGGACCCTTCTGCCCTTGCTCTGC  
 CTTGCCACTCCCCTGTTTTCTCGCTAAGAGCTCTGGTGGGAGGCACCGGAGCACCTCAGTAGTCCGAG  
 TGGCTTCTGCCTTTGGGGCTGGCTGCTGGCTGGCTATGGGGCTGTTGCGCTGAGCTGGGCCGTGTGGG  
 TGTGCTGAGCCCCGCTGGAGTCCAGGAGAAGGAACCAGGCCAGGAGAACAGAACTGATGAAGCGGTTG  
 CTGAAGCTGTCCAGGCCGACCTGCCTTTCCTCATAGCTGCCTTCTTCTTCTTGTGGTGGCTGTGTGG  
 GGGAGACATTAATCCCTCGCTATTCGGGTCGTGAATTGACATCCTGGGAGGTGATTTCCACCCCGACGC  
 CTTTGAAGCGCCATCTTTTTCATGTGCCTGTTCTCTGTTGGGAGCTCCTTCTCTGCAGGCTGTAGAGGA  
 GGCTCCTTCTCTTACCATGTCCAGGATCAACCTGCGGATACGAGAGCAGCTTTTCTCATCTTTGTTGC  
 GCCAAGACCTTGATTCTTCCAGGAGACCAAGACAGGGGAGCTGAACTCGAGGCTGAGCTCTGACACCTC  
 TCTGATGAGCCGCTGGCTCCCTTCAATGCCAATATCCTGCTGCGGAGCCTGGTGAAGGTGGTGGGGCTC  
 TACTTCTCATGTCCAGGTATCGCCCCGACTCACCTTCTCCTGCTGGACCTGCCCTCACGATAG  
 CAGCTGAGAAGGTGTACAACCCCGCCATCAGGCGGTGCTAAAGGAGATCCAGGATGCAGTGGCCAAGGC  
 GGGGCAGTGGTGCAGGCGGTAGGAGGGCTGCAGACTGTGCGAAGCTTTGGGGCCGAGGAGCAGGAA  
 GTCAGCCACTACAAGGAGGCCCTGGAGCGATGTAGACAGCTGGTGGCGCCGAGACCTGGAAAAAGACG  
 GTATCTAGTCATACGGAGGGTATGGCCTTGGGCATGCAGGTGCTGATTCTGAACTGCGGCGTGCAGCA  
 GATTCTGGCTGGAGAGGTCACCCGGGGTGGCCTGCTCTCCTTCTGCTGTACCAGGAGGAAGTGGGACAA  
 TATGTCCGGAACCTGTTTTACATGTACGGGATATGCTGAGCAACGTGGGCGCTGCTGAAAAGGTGTTTT  
 CCTACCTGGACCGAAAGCCGAATCTGCCCCAGCCTGGGATCCTGGCCCTCCCTGGCTGGAGGGGCGCGT  
 GGAATCCAAGACGTCTCCTTTTCGATACCCAGGCGCCCCGAGAAGCCTGTGCTCCAGGGTCTGACGTTT  
 ACCCTGCATCCTGGAACGGTGACAGCGTTGGTGGGACCAATGGATCAGGGAAGAGCACCGTGGCCGCC  
 TGCTGCAGAACCTGTACCAGCCACTGGGGCCAGCTGCTGCTGGATGGCGAGCCCTGACCGAGTATGA  
 TCACCACTACCTGCACCCAGGTGTTCTGGTGGGCGAGGACCTGTGCTGTTCTCGGTTCTGTCAAG  
 GACAATATTGCCTATGGCCTGAGGGACTGTGAGGACGCTCAAGTATGGCAGCTGCCAGGCGCCCTGTG  
 CAGACGACTTCATAGGGGAAATGACTAATGGAATAAACACAGAAATCGGGGAAAAAGGGGCCAGTTAGC  
 TGTGGGACAGAAGCAACGCTGGCCATTGCCCGGGCCCTTGTGCGGAACCCACGGGTCTCATCCTGGAT  
 GAGGCTACCAGCGCCCTGGACGCCAGTGTGAACAGGCCCTACAGAACTGGAGATCGCAGGGGGACAGGA  
 CGATGCTGGTATTGCCACAGGCTGCACACGGTTCAGAATGCTGACCAAGTTCTGGTGCTCAAGCAGGG  
 ACGTCTGGTGGAGCATGACCAGCTCAGGACGGCCAGGATGTCTACGCCACCTGGTACAGCAGCGGCTG  
 GAGGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210132 representing NM\_011530  
 Red=Cloning site Green=Tags(s)

```

MALSYLRPWVSLLLADMALLGLLQGSLGNLLPQGLPGLWIEGTLRLGVLWGLLKVGEELLGLVGTLLPLLC
LATPLFFSLRALVGGTASTSVVRVASASWGWLLAGYGAVALSWAVWAVLSPAGVQEKEPQQENRMLMKRL
LKL SRPDL PFLIAAFFFLVAVWGETLIPRYSGRVIDILGGDFDPAFASAIFFMCLF SVGSSFSAGCRG
GSFLFTMSRINLRIREQLFSSLLRQDLGFFQETKTGELNSRLSSDTSLMSRWLPFNANILLRSLVKVVGL
YFFMLQVSPRLTFLSLLDLPLTIAAEKVYNPRHQAVLKEIQDAVAKAGQVVREAVGGLQTVRSFGAEEQE
VSHYKEALERCRLWRRDLEKDYYLVIRRYMALGMQVLIILNCGVQQILAGEVTRGGLLSFLLYQEEVQ
YVRNLVYMGDMLSNVGA AEKVFSYLD RKP NLPQPGILAPPWLEGRVEFQDV SFYPRRPEKPV LQGLTF
TLHPGVTALVGPNGSGKSTVAALLQNL YQPTGGQLLLDGEPLTEYDHHYLHRQVVLV GQEPV LFSGSVK
DNIAYGLRDCEDAQVMAAAQAACDDF IGEMTNGINTEIGEKGGQLAVGQKQRLAIARALVRNPRV LILD
EATSALDAQCEQALQNWRSQGDRTMLVIAHRLHTVQNADQV LVLKQGR LVEHDQLRDGQDVY AHLVQQR L
EA
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011530

**ORF Size:** 2106 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\\_011530.3](#), [NP\\_035660.3](#)

**RefSeq Size:** 2425 bp

**RefSeq ORF:** 2109 bp

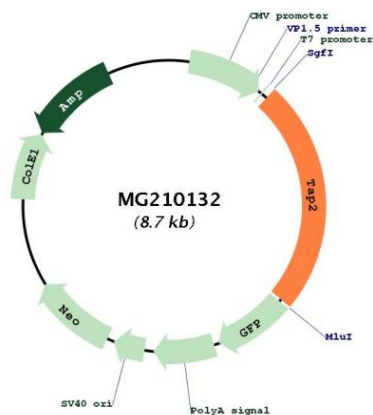
**Locus ID:** 21355

**UniProt ID:** [P36371](#)

**Cytogenetics:** 17 17.98 cM

**Gene Summary:** The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is involved in antigen presentation. This protein forms a heterodimer with Tap1 in order to transport peptides from the cytoplasm to the endoplasmic reticulum. Mutations in the human gene may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, and celiac disease. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for MG210132