

## Product datasheet for **MG215458**

### Atp2b3 (NM\_177236) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2b3 (NM_177236) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp2b3
Synonyms:	6430519O13Rik; Pmca3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215458 representing NM_177236 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGACATGGCAAACAGTTCATTGAGTTCACCCCAAGCCCAAGCAGCAGCAGCGGAAGTGCCCATG  
TGGGTGGCTTTGGATGCACACTGGCAGAACTACGAAGCCTCATGGAGCTCCGAGGTGCTGAGGCACTGCA  
GAAGATTAAGAAGCCTATGGGGATGTCAGCGGGCTGTGCAGGAGGCTGAAGACCTCACCTACTGAGGGC  
CTGGCAGACAACACCAATGACTTGGAGAAACGCAGGCAGATCTATGGGCAGAACTCATCCCCCAAAGC  
AGCCTAAGACCTTCTGCAACTGGTGTGGGAAGCCCTGCAGGACGTGACTCTCATCATCTGGAGGTGGC  
TGCTATCGTCTCCCTGGGCCTCTCTTCTATGCACCTCCTGGAGAGGAAAGTGAAGCCTGTGGGAATGTG  
TCTGTTGGGCGAGAGGATGAAGGAGAGGCTGAAGCTGGCTGGATTGAGGGGGCTGCCATCTACTCTCTG  
TCATCTGTGTGGTGTGGTGCACAGCCTTCAATGACTGGAGCAAGGAAAAGCAGTCCGAGGTCTTCAAAG  
CCGTATTGAGCAGGAGCAGAAGTTTACTGTACATACGAAATGGGCAGCTCCTCCAGGTCCCTGTGGCGGCC  
CTGGTGGTAGGGGACATTGCCAGGTCAAATATGGAGATCTTCTGCCTGCCGATGGTGTGCTCATCCAAG  
GCAATGACCTCAAGATCGATGAGAGCTCCCTGACCGCGAGTCGGACCATGTTGCGAAAATCAGCAGACAA  
AGATCCTATGCTGCTCTCAGAACTCATGTATGGAAGTTCTGGGAGAATGGTGGTAACAGCTGTTGGT  
GTGAATCCCAGACAGGCATCATCTTTACATTGCTTGGGGCAGGTGGAGAGGAGGAGGAGAAGAAAGACA  
AGAAAGGCAAGCAGCAGGATGGGGCGATGGACAGTAGCCAAACCAGAGCTAAGAAGCAGGATGGGGCTGT  
TGCCATGGAATGCAACCCCTGAAGAGCGCCGAGGGTGGGAAAATGGAGGAGCGGAAAAGAAGAAAGCC  
AACGTACCCAAGAAGGAGAAGTCAGTCTGCAAGGAAAGCTCACAAAAGTGGCTGTGCAGATTGGGAAAAG  
CAGGATTGGTGTGTCTGCTATCACTGTATCATTCTGGTCTCTACTTTGTGATTGAGACCTTTGTCGT  
GGATGGCCGGGTATGGCTGGCAGAGTGCACACCAGTGTATGTGCAGTACTTCGTGAAGTTCTTCATTATT  
GGAGTCACTGTTTTGGTGTGGCTGTCCCTGAGGGCCTGCCTCTTGTGTTACTATCTCCTTGGCTTATT  
CTGTCAAGAAAATGATGAAGGATAATAACCTGGTACGCCACCTGGATGCCTGTGAGACCATGGGCAATGC  
CACAGCCATCTGTTCTGACAAGACGGGCACACTACCACCAACCGCATGACAGTGGTCCAGTCTACCTA



View online »

GGAGACCCCACTACAAAGAGATTCCAGCTCCCAGCGCCCTGACCCCAAGATTCTTGACCTTCTGGTTC  
ACGCCATCTCCATCAACAGTGCCTACACCACAAAATTCTACCTCCAGAGAAAGAAGGCGCTCTCCCACG  
CCAAGTGGGCAACAAAACAGAGTGTGCTCTGCTGGGCTTCGTCTTGACCTGAAACGTGACTTCCAGCCA  
GTACGGGAGCAGATACCAGAAGATCAGCTTTACAAAGTGTACACCTTCAACTCAGTTCGCAAGTCTATGA  
GCACAGTTATCCGCATGCCTGATGGTGGCTTCCGCCTTTAGCAAGGGAGCCTCAGAGATTCTGCTCAA  
AAAGTGTACAAACATCTTAAACAGCAATGGTGAACCTCCGAGGATTCGTCTCGGACCCGGGATGATATG  
GTGAAGAAGATCATTGAGCCTATGGCTTGTGATGGCCTCCGACCATCTGCATTGCCTACAGGGACTTCT  
CTGCTATCCAGGAGCCTGATTGGGACAATGAGAATGAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
GGGCATCGAGGACCCTGTGCGACCTGAGGTCCCTGAAGCCATTGAAAATGCCAGCGTGTGGCATCACA  
GTCCGTATGGTACTGGAGACAACATCAACACTGCCCGGGCTATTGCAGCTAAGTGTGGCATCATCCAGC  
CAGGAGAGGACTTCTGTGCCTGGAGGGGAAGGAATTCAACAGAAGAATTCGAAATGAGAAAGGCGAGAT  
TGAACAGGAGCGGCTGGACAAAGTGTGGCCAAGCTGCGGGTCTTGCCCGGTCTCTCCACTGATAAA  
CATACTCTGGTTAAAGGCATTATTGACAGCACAACCTGGTGAAGCAGCGCAGGTGGTGGTGTGACTGGAG  
ATGGCACCAATGATGGGCCAGCCCTCAAAAAGGCAGATGTGGCTTCGCCATGGGCATTGCAGGCACTGA  
TGTGGCCAAGGAGCCTCTGACATCATTCTGACTGATGACAACCTCACCAGCATTGTCAAGCGGTCATG  
TGGGGCCCAATGTCTATGACAGCATCTCCAAGTTCCTGCAGTTTCAGTTGACAGTCAACGTGGTAGCTG  
TGATCGTGGCCTTACGGGTGCCTGCATTACTCAGGACTCTCCTCTCAAAGCTGTGCAGATGTTGTGGGT  
GAACCTAATCATGGACACATTTGCCTCACTTGCCTGGCAACGGAACCCCAACTGAGTCACTGTGCTG  
CGGAAGCCATACGGCCGGGACAAGCCTCTCATCTCGAGAACCATGATGAAGAATCCTTGGACATGCTG  
TCTACCAGCTCACCATCATCTTTACCCTGCTATTTGTTGGGGAGCTTTTCTTTGACATTGACAGTGGAA  
AAATGCACCTCTGCACTCACCACCGTCAGAGCACTATACCATCATCTTCAACACGTTTCGTCATGATGCAG  
CTTTTCAATGAGATCAATGCTCGCAAGATCCATGGTGAAGGAATGTCTTTGATGGCATCTTCAGCAACC  
CCATCTTCTGCACCATTTGCTTGGGCACCTTTGGAATTCAGATTGTCATTGTCCAATTTGGAGGGAAGCC  
CTTCAGCTGTTCCCACTGTCCACAGAACAGTGGCTTTGGTGCCTGTTTGGTGGTGGTGGTGGTGGTGGT  
TGGGGACAGGTATTGCCACCATCCCACCAGCCAGCTCAAGTGCCTGAAGGAAGCAGGGCATGGGCCTG  
GGAAGGATGAGATGACTGATGAAGAGCTGGCCGAAGGGGAAGAAGAAATTGACCATGCTGAACGAGAGCT  
CCGCAGGGCCAGATCCTCTGGTTTCGGGGCCTCAACCGGATCCAGACACAGATCCGGGTGGTGAAGCA  
TTCCGTAGCTCGCTTTATGAAGGCCTGGAGAAACCAGAATCCAAGAGTTGCATCCATAAATTCATGGCAA  
CACCCGAGTTTTTATGATCAATGACTACCCACAATATCCCCTCATCGATGACACAGATGTGGATGAGAA  
CGAAGAGCGCCTGAGGGCCACCTCCCCACCCCTAACCAGAACAAACGCCATAGACAGCGGCATC  
TACCTGACCACGCATGCCACCAAGTCAGCTACCTTTCAGATTCTCTTCCAGGCCCGGGAGCCACTCC  
ACAGCATGGAGACATCCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG215458 representing NM\_177236  
 Red=Cloning site Green=Tags(s)

```

MGDMANSSIEFHPKPQQQREVPHVGGFGCTLAELRSLMELRGAEALQKIQEAYGDVSGLCRRLKTSPTTEG
LADNTNDLEKRRQIYQNFIPPKQPKTFLQLVWEALQDVTLLIILEVAIVSLGLSFYAPPGEESEACGNV
SGGAEDEGEAEAGWIEGAAILLVVICVVLVAFNDWSKEKQFRGLQSRIEQEKFVIRNGQLLQVPVAA
LVVGDIAQVKYGDLLPADGVLIQNDLKIDESSLTGESDHVRKSADKDPMLLSGTHVMEGSGRMVVTAVG
VNSQTGIIFTLLGAGEEEEKDKKGGKQDGDAMDSSQTRAKKQDGAVAMEMQPLKSAEGGEMEEREKKA
NVPKKEKSVLQGKLTKLAVQIGKAGLVMSAITVILVLVYFVIETFFVDGRVWLAECTPVYVQYFVKFFII
GVTVLVVAVPEGLPLAVTISLAYSVKMMKDNLLVRHLDACETMGNATAICSDKTGTLTTRNMTVVQSYL
GDTHYKEIPAPSALTPKILDLLVHAISINSAYTTKILPPEKEGALPRQVGNKTECALLGFVLDLKRDFQP
VREQIPEDQLYKYYTFNSVRKSMSTVIRMPDGGFRLFSGKASEILLKCTNILNSNGELRGRFRDRDDM
VKKIIIEPMACDGLRTICIAYRDFSAIQEPDWDNENEVVDLTCIAVVGIEDPVRPEVPEAIRKCKQRAGIT
VRMVTGDNINTARAIAAKCGI IQPGEFLCLEGKEFNRRIRNEKGEIEQERLDKVPKLRVLRSSPTDK
HTLVKGIIDSTTGEQRQVAVTGDGTNDGPALKKADVGFAMGIAGTDVAKEASDIILTDDNFTSIVKAVM
WGRNVYDSISKFLQQLTVNVVAVIVAFGTACITQDSPLKAVQMLWVNLIMDTFASLALATEPPTESLLL
RKPYPGRDKPLISRTMMKNILGHAVYQLTIIFTLLFVGELFFDIDSGRNAPLHSPSEHYTIIIFNTFVMMQ
LFNEINARKIHGERNVFDGIFSNPIFCTIVLGTFGIQIVIVQFGGKPFSCSPLSTEQWLWCLFVGVGELV
WGQVIATIPSTQLKCLKEAGHGPCKDEMTEDELAEGEEEIDHAERELRRGQILWFRGLNRQIQIRVVK
FRSSLYEGLEKPEKSCSIHNFMATPEFLINDYTHNIPLIDDTDVDENEERLRAPPPPPPNQNNNAIDSGI
YLTTTHATKSATSSAFSSRPGSPLHSMETSL
  
```

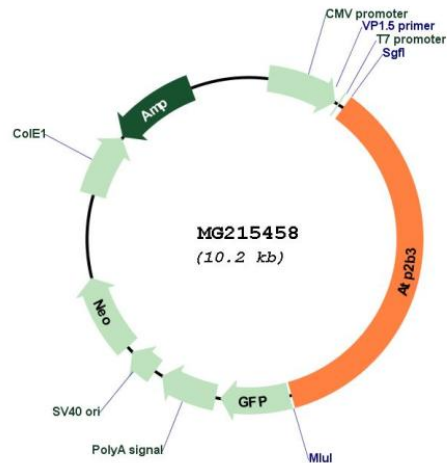
TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_177236

**ORF Size:** 3660 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\\_177236.4](#), [NP\\_796210.2](#)

**RefSeq Size:** 4483 bp

**RefSeq ORF:** 3663 bp

**Locus ID:** 320707

**Cytogenetics:** X A7.3