

## Product datasheet for **MG220335**

### Amt (NM\_001013814) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Amt (NM_001013814) Mouse Tagged ORF Clone                                      |
| Tag:                      | TurboGFP   |
| Symbol:                   | Amt  |
| Synonyms:                 | EG434437   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >MG220335 representing NM_001013814<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCATCGGATAGTCAGTGTGGTAGCCCTCTGGGTTTTCGCCTGCAGGCACAACCCTTGGTCCAGAGTC  
GCCCACTCAGTTCTGTACAGGATGTGCTCCGAGGACTCCACTCTATGACTTCCACCTAGCTCATGGAGG  
AAAAATGGTGGCGTTTGCAGGGTGGAGTCTGCCTGTACAATACCGTGACAGTCATGTTGATTCACACCTG  
CACACACGCCGGCATTGCTCTCTTTGATGTGCCACATGCTACAGACCAAGATATTTGGCTGTGACC  
GAGTGAAGCTGCTGGAGAGTGTAGTGGTTGGAGACATTGCGGAATAAGGCCTAACCAGGGAACACTCTC  
TTTGTTCACCAACGAAGCTGGAGGCATCTAGACGACTTGATTGTAAGCAATACTTCTGAGGGGCACCTG  
TATGTAGTATCCAATGCTGGCTGCCGGGACAAGGACTTGGCTCTCATGCAGGACAAGGTCAGGAGTTCC  
AGAACAGGGGCGCTGGATGTAGGCCTGGAGGTGGTAGAGAAATGCCCTGTTAGCTCTGCAAGGACCCACGGC  
AACACAGGTGTTACAGGCTGGGGTGACAGATGATGAAGAAACTACCCTTCATGACAAGTGTGTGATG  
GAGGTGTTGCGTGTGCTGGCTGTCGTGTGACCCGCTGTGGCTACACAGGAGAAGATGGTGTGAGATAT  
CAGTCCCAGCAACAGGGGAGTCCACTTGGCAACTACTCTGTTGAAAAATCCAGAGGTAAGCTGGCAGG  
ACTACACTGTGGAGGGCAGCCTCAGCTGGACTGGGAAGCGCCCGCATTGCTATGGACTTCCCAG  
GAGCCAAAATCATTGTTCCCAACTGAAGGGTGAAGGTACAGCGGAGACGTGTGGGGCTGATATGTGAAGG  
GGCTCCAGTGAGAGCACACAGTCTATTTTGAACACAGAAGGCACTGTGATAGGTACTGTGACCACTGGC  
TGCCCTTCACCCAGCCTGAAGAAAAATGTGGCGATGGGTTATGTGCCATTTAAGTACAGTCGACCAAGGGA  
CACAGCTGCTGGTGAAGTCCGGCGGAAGCAGCAATGACAGTGGTTAGCAAAAATGCCCTTTGTGCCAC  
CAACTATTATACTCTCAAG

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220335 representing NM\_001013814  
 Red=Cloning site Green=Tags(s)

MHRIVSVVAPLGFRLQAQPLVQSRPLSSVQDVLRRTPLYDFHLAHGGKMVAFAGWSLPVQYRDSHVDSHL  
 HTRRHCSLFDVSHMLQTKIFGCDRVKLLLESVVVDIAELRPNQGTLSLFTNEAGGILDDLIVSNTSEGL  
 YVVSNAGCRDKDLALMQDKVKEFQNRGLDVGLEVVENALLALQGPTATQVLQAGVTDMMKKLPFMTSAVM  
 EVFVSGRCRVTRCGYTGEDGVEISVPATGAVHLATTLKKNPEVKLAGLAARDSLRLEAGLCLYGNDIDEH  
 TTPVEGSLSWTLGKRRRIAMDFPGAIIIVPQLKGEVQRRRVGLICEGAPVRAHSPILNTEGTVIGTVTSG  
 CPSPSLKKNVAMGYVPFKYSRPGTQLLVEVRRKQQMTVVSKMPFVPTNYITLK

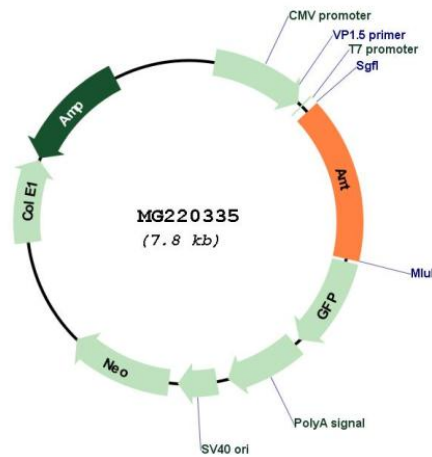
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001013814

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1209 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | 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>                | <a href="#">NM_001013814.2</a>  |
| <b>RefSeq Size:</b>           | 1325 bp   |
| <b>RefSeq ORF:</b>            | 1212 bp   |
| <b>Locus ID:</b>              | 434437  |
| <b>UniProt ID:</b>            | <a href="#">Q8CFA2</a>  |
| <b>Cytogenetics:</b>          | 9 F1  |
| <b>Gene Summary:</b>          | The glycine cleavage system catalyzes the degradation of glycine.[UniProtKB/Swiss-Prot Function]  |