

## Product datasheet for **MG205283**

### Ambp (NM\_007443) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ambp (NM_007443) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ambp
Synonyms:	A1194774; ASPI; HI-3; HI-30; I; In; Intin4; Itil; uli; UT; UTI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205283 representing NM_007443 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAAGGCTCTCAGGACCCTGTTCTGCTGCTGACTGCCTGCCTCGCTTCGAGGGCTGACCTGCGTCAA  
CACTGCCAGATATCCAGTTTCAGGAGAAGTTTCAGTGAAGTCCCGGATCTATGGAAAATGGTACAACCTGGC  
GGTGGGATCCACCTGCCCGTGGCTGAGCCGCATTAAGGACAAGATGAGCGTGAGCAGCTGGTGTGCAG  
GAGGGGGCGACAGAAACAGAGATCAGCATGACCAGTACTCGATGGCGGAGAGGTGTCTGTGAGGAGATCA  
CTGGGGCGTACCAGAAGACGGACATCGATGGAAAGTTCTCTACCACAAATCCAAATGGAACATAACCTT  
GGAATCCTATGTGGTCCACCAACTATGACGAATATGCCATTTTCCTTACCAAGAAGTCCAGCCACCAC  
CACGGGCTCACCATCACTGCCAAGCTCTATGGTGGGAGCCACAGCTGAGGGACAGCCTTCTGCAGGAGT  
TCAAGGATGTGGCCCTGAATGTGGGCATCTCTGAGAACTCCATCATTTTTATGCCTGACAGAGGGGAATG  
TGTCCCTGGGGATCGGGAGGTGGAGCCACATCAATTGCCAGAGCCCGGGCGGAGTGTGCCCCAAAGAG  
AGTGAGGGGTGAGGACTGAGCCACTAATAACTGGGACCTCAAGAAAGAAGACTCCTGCCAGCTCAATT  
ACTCAGAAGGCCCTGCCTAGGGATGCAAGAGAGGTATTACTACAACGGCGCTTCCATGGCCTGCGAGAC  
CTTTCAATATGGGGTTGCCTAGGCAACGGCAACAACCTCATCTCTGAGAAGGACTGTCTGCAGACATGT  
CGGACCATAGCGGCTGCAATCTCCCATAGTCCAAGGCCCTGCCGAGCCTTCAAAAGCTCTGGGCAT  
TTGATGCAGCACAAGGGAAGTGATCCAATTCCTACTACGGGGCTGCAAAGGCAACGGCAACAAATCTCA  
CTCTGAGAAGGAATGCAAAGAGTACTGTGGAGTCCCTGGTGTGAGTACGAGGAATAATACGCAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205283 representing NM\_007443  
 Red=Cloning site Green=Tags(s)

MQGLRTLFLLLTACLASRADPASTLPDIQVQENFSESRIYGKWNLAVGSTCPWLSRIKDKMSVSTLVLQ  
 EGATETEISMTSTRWRRGVCEEITGAYQKTDIDGKFLYHKSKNITLESYVVHTNYDEYAIFLTKKSSH  
 HGLTITAKLYGREPQLRDSLLQEFKDVALNVGISENSIIFMPDRGECVPGDREVEPTSIARRAVLPQE  
 SEGSGTEPLITGLKKEDSCQLNYSEGPCLMQERYYYNGASMACETFQYGGCLGNGNFISEKDCLQTC  
 RTIAACNLPIVQGPCRAFIKLWAFDAAQKCIQFHYGGCKGNGNKFYSEKECKEYCGVPGDGYEELIRS

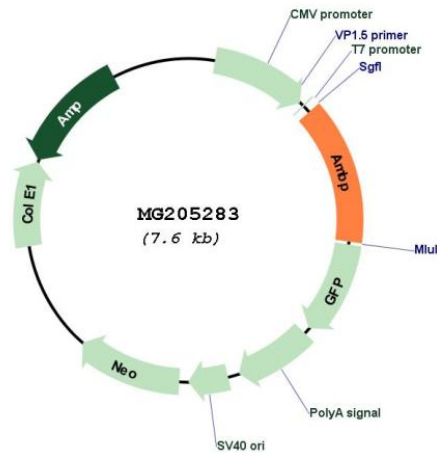
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_007443

**ORF Size:** 1047 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_007443.4</a>
<b>RefSeq Size:</b>	1233 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	11699
<b>UniProt ID:</b>	<a href="#">Q07456</a>
<b>Cytogenetics:</b>	4 33.96 cM
<b>Gene Summary:</b>	This gene encodes a fusion protein that undergoes proteolytic processing to generate two mature proteins: alpha-1-microglobulin (A1m) is a heme-binding plasma glycoprotein of the lipocalin superfamily of proteins that bind to hydrophobic molecules, whereas bikunin belongs to the superfamily of Kunitz-type protease inhibitors. The transgenic mice specifically lacking bikunin, but not A1m, exhibit female infertility and an increased sensitivity to lung metastasis. [provided by RefSeq, Oct 2015]