

## Product datasheet for **MG221785**

### Amy2b (NM\_001190404) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Amy2b (NM\_001190404) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Amy2b  
**Synonyms:** Amy-X; Amy2-2; mAmy2-1; OTTMUSG00000022462  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG221785 representing NM\_001190404  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGAAGTTCGTTCTGCTGCTTTCCCTCATTGGGTTCTGCTGGGCTCAATATGACCCACATACTTCAGATG  
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 AGCTCCTAAGGGATTTGGAGGGGTGCAGGTCTCTCCACCAATGAAAATATTGTAATTCATAACCCATCA  
 AGGCCTTGGTGGAAAGATATCAACCAATCAGCTACAAAATTTGCACAAGGTCTGGAAATGAAGATGAAT  
 TCAGAGACATGGTGACAAGGTGCAACAATGTTGGTGTCCGATTTATGTGGATGCTGTCATTAACCCAT  
 GTGTGGCTCAGGCAATCCTGCAGGAACAAGCAGTACCTGTGGAAGTTACCTCAATCCAAATACAGGGAA  
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 GAACATGGTTGCCTTCAGGAATGTAGTCAATGGTCAAGCTTTTGCAAAAGTGGTGGGATAATAACAGCAAC  
 CAAGTAGCTTTTAGCAGAGGAAACAGAGGCTTCATTGTCTTTAACAATGATGACTGGGCTTTGTGAGCCA  
 CTTTACAGACTGGTCTTCTGCTGGCACATACTGTGATGTCTCTGGAGATAAGGTCGATGGCAATTG  
 CACTGGACTTAAAGTAAATGTTGGCAGTGATGGTAAAGCTCACTTTTCCATTAGTAACTCTGCTGAGGAC  
 CCATTTATTGCAATCCATGCTGACTCAAACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221785 representing NM\_001190404  
 Red=Cloning site Green=Tags(s)

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MKFVLLLSLIGFCWAQYDPHTSDGRTAIVHLFEWRWVDIAKECERYLAPKGFGGVQVSPPNENIVIHNP
RPWWERYQPI SYKICTRSGNEDEFDMVTRCANNVGVRIYDAVINHMCSSGNPAGTSSTCGSYLNPNNRE
FPAVPYSAWDFNDNKNGEISNYNDAYQVIDLGGEAIKGSEYFGNGRVTEFKFGAKLGTVIRKWNGEKMS
YLKNWGEWGLVPSDRALVFDNHDNQRGHGAGGSSILTFWDARMYKMAVGFMLAHPYGFTRVMSSYRWN
RNFQNGKDQNDWIGPPNNGVTKEVTINADTTCCGNDWVCEHRWRQIRNMVAFRNVVNGQPFANWWDNNSN
QVAFSRGNRGFIVFNDDWALSATLQTGLPAGTYCDVISGDKVDGNCTGLKVNVS DSKAHSISNSAED
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```

TRTRPLE - GFP Tag - V

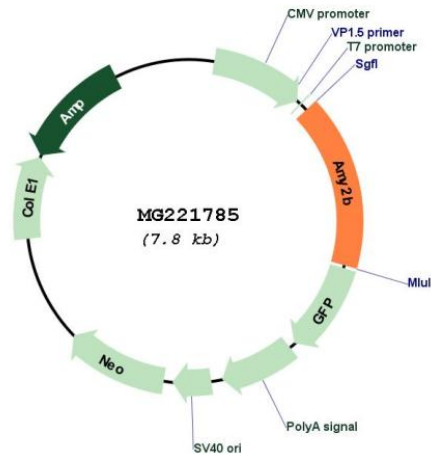
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001190404

|                               |  |
|-------------------------------|--|
| <b>ORF Size:</b>              | 1293 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_001190404.1</a> , <a href="#">NP_001177333.1</a>  |
| <b>RefSeq Size:</b>           | 1347 bp  |
| <b>RefSeq ORF:</b>            | 1296 bp  |
| <b>Locus ID:</b>              | 545562   |
| <b>Cytogenetics:</b>          | 3 49.35 cM   |
| <b>Gene Summary:</b>          | Amylases are secreted proteins that hydrolyze 1,4-alpha-glucoside bonds in oligosaccharides and polysaccharides, and thus catalyze the first step in digestion of dietary starch and glycogen. The mouse genome has a cluster of several amylase genes that are expressed at high levels in either salivary gland or pancreas. This gene encodes an amylase isoenzyme produced by the pancreas. At least one mouse strain has a non-functional allele of this gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2011] |