

Product datasheet for **MG221812**

Amy2b (NM_001190403) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amy2b (NM_001190403) 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)



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ORF Nucleotide Sequence:

>MG221812 representing NM_001190403
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTTCGTTCTGCTGCTTTCCCTCATTGGGTTCTGCTGGGCTCAATATGACCCACATACTTCAGATG
 GGAGGACTGCTATTGTCCACCTGTTGAGTGGCGCTGGGTTGATATTGCCAAGGAATGTGAGCGATACTT
 AGCTCCTAAGGGATTTGGAGGGGTGCAGGTCTCTCCACCAATGAAAATATTGTAATTCATAACCCATCA
 AGGCCTTGGTGGGAAAGATATCAACCAATCAGCTACAAAATTTGCACAAGGTCTGGAAATGAAGATGAAT
 TCAGAGACATGGTGACAAGGTGCAACAATGTTGGTGTCCGATTTATGTGGATGCTGTCATTAACCCAT
 GTGTGGCTCAGGCAATCCTGCAGGAACAAGCAGTACCTGTGGAAGTTACCTCAATCCAAATAACAGGGAA
 TTCCCAGCAGTTCATACTCTGCTTGGGACTTTAACGATAATAAATGTAATGGAGAAATAGTAACCTACA
 ATGATGCTTATCAGGTCAGAAAATGTCGCTGTCTGGCCTTCTGGATCTTGCACTTGAGAAAGATTATGT
 TCGTACCAAGGTTATTGATCTGGGTGGTGAAGCAATTAAGGTAGTGAGTACTTTGGAAATGGCCGTGTA
 ACAGAATTCAGTTTGGTGCAAACTTGGCACAGTTATCCGCAAGTGGAATGGAGAGAAGATGTCCTATT
 TAAAGAACTGGGAGAAGGTTGGGGTTTGGTGCCTTCTGACAGAGCCCTTGTGTTTGGGACAACCATGA
 CAATCAGCGAGGACATGGTGTGGAGGATCATCCATCCTGACATTCTGGGATGCTAGAATGTACAAAATG
 GCTGTTGGATTTATGTTGGCTCATCCTTATGGATTACAAGAGTAATGTCAAGTTACCGTTGGAATAGAA
 ATTTCCAGAATGGAAAAGATCAGAATGACTGGATTGGACCACCTAATAACAATGGAGTAACAAAAGAAGT
 GACCATTAATGCAGACACTACTTGTGGCAATGACTGGGCTGTGAACATAGATGGCGTCAATAAGGAAC
 ATGGTTGCCTTCAGGAATGTAGTCAATGGTCAGCCTTTTGCAAACTGGTGGGATAATAACAGCAACCAAG
 TAGCTTTTAGCAGAGAAACAGAGGCTTCATTGTCTTTAACAATGATGACTGGGCTTTGTGAGCCACTTT
 ACAGACTGGTCTTCTGCTGGCACATACTGTGATGTCATCTCTGGAGATAAGGTGATGGCAATTGCACT
 GGACTTAAAGTAAATGTTGGCAGTGATGGTAAAGCTCACTTTTCCATTAGTAACCTGCTGAGGACCCAT
 TTATTGCAATCCATGCTGACTCAAACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221812 representing NM_001190403
 Red=Cloning site Green=Tags(s)

MKFLVLLSLIGFCWAQYDPHTSDGRTAIVHLFEWRWVDIAKECERYLAPKGFGGVQVSPNENIVIHNP
 RPWWERYQPISYKICTRSGNEDEFDMVTRCANNVGVRIYVDAVINHMC GSGNPAGTSSTCGSYLNPNNRE
 FPAVPYSAWDFNDNKCNGEISNYNDAYQVRNCRSLGLLDLALAKDYVRTKVIDLGGEAIKGEYFGNGRV
 TEFKFGAKLGTVIRKWNGEKMSYLKNWGEWGLVPSDRALVFDNHDNQRGHGAGGSSILTFWDARMYKM
 AVGFMLAHPYGFTRVMSSYRWNRNFQNGKDQNDWIGPPNNNGVTKEVTINADTTCCNDWVCEHRWRQIRN
 MVAFRNVVNGQPFANWWDNNSNQVAFSRGNRGFIVFNDDWALSATLQTGLPAGTYCDVIVSGDKVDGNCT
 GLKVNVDGSDGKAHFSISNSAEDPFIAIHADSKL

TRTRPLE - GFP Tag - V

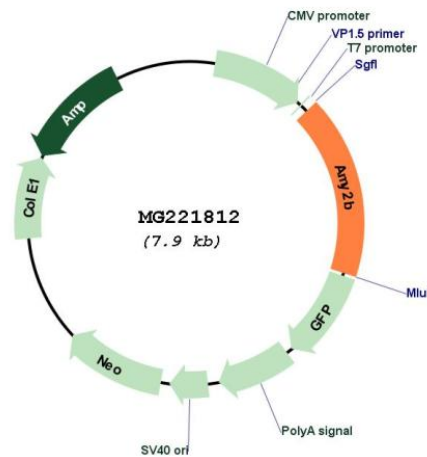
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001190403

ORF Size: 1359 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:	<ol style="list-style-type: none">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:	<u>NM_001190403.1, NP_001177332.1</u>
RefSeq Size:	1413 bp
RefSeq ORF:	1362 bp
Locus ID:	545562
Cytogenetics:	3 49.35 cM
Gene Summary:	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]