OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR221812

Amy2b (NM_001190403) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amy2b (NM_001190403) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amy2b
Synonyms:	Amy-X; Amy2-2; mAmy2-1; OTTMUSG00000022462
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR221812 representing NM_001190403
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTTCGTTCTGCTGCTTTCCCTCATTGGGTTCTGCTGGGCTCAATATGACCCACATACTTCAGATG
GGAGGACTGCTATTGTCCACCTGTTCGAGTGGCGCTGGGTTGATATTGCCAAGGAATGTGAGCGATACTT
AGCTCCTAAGGGATTTGGAGGGGTGCAGGTCTCTCCACCCAATGAAAATATTGTAATTCATAACCCATCA
AGGCCTTGGTGGGAAAGATATCAACCAATCAGCTACAAAATTTGCACAAGGTCTGGAAATGAAGATGAAT
TCAGAGACATGGTGACAAGGTGCAACAATGTTGGTGTCCGTATTTATGTGGATGCTGTCATTAACCACAT
GTGTGGCTCAGGCAATCCTGCAGGAACAAGCAGTACCTGTGGAAGTTACCTCAATCCAAATAACAGGGAA
TTCCCAGCAGTTCCATACTCTGCTTGGGACTTTAACGATAATAAATGTAATGGAGAAATTAGTAACTACA
ATGATGCTTATCAGGTCAGAAATTGTCGTCTGTCTGGCCTTCTGGATCTTGCACTTGAGAAAGATTATGT
TCGTACCAAGGTTATTGATCTGGGTGGTGAGGCAATTAAAGGTAGTGAGTACTTTGGAAATGGCCGTGTA
ACAGAATTCAAGTTTGGTGCAAAACTTGGCACAGTTATCCGCAAGTGGAATGGAGAGAAGATGTCCTATT
TAAAGAACTGGGGAGAAGGTTGGGGTTTGGTGCCTTCTGACAGAGCCCTTGTGTTTGTGGACAACCATGA
CAATCAGCGAGGACATGGTGCTGGAGGATCATCCATCCTGACATTCTGGGATGCTAGAATGTACAAAATG
GCTGTTGGATTTATGTTGGCTCATCCTTATGGATTCACAAGAGTAATGTCAAGTTACCGTTGGAATAGAA
ATTTCCAGAATGGAAAAGATCAGAATGACTGGATTGGACCACCTAATAACAATGGAGTAACAAAAGAAGT
GACCATTAATGCAGACACTACTTGTGGCAATGACTGGGTCTGTGAACATAGATGGCGTCAAATAAGGAAC
ATGGTTGCCTTCAGGAATGTAGTCAATGGTCAGCCTTTTGCAAACTGGTGGGATAATAACAGCAACCAAG
TAGCTTTTAGCAGAGGAAACAGAGGCTTCATTGTCTTTAACAATGATGACTGGGCTTTGTCAGCCACTTT
ACAGACTGGTCTTCCTGCTGGCACATACTGTGATGTCATCTCTGGAGATAAGGTCGATGGCAATTGCACT
GGACTTAAAGTAAATGTTGGCAGTGATGGTAAAGCTCACTTTTCCATTAGTAACTCTGCTGAGGACCCAT
TTATTGCAATCCATGCTGACTCAAAACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221812 representing NM_001190403
Red=Cloning site Green=Tags(s)

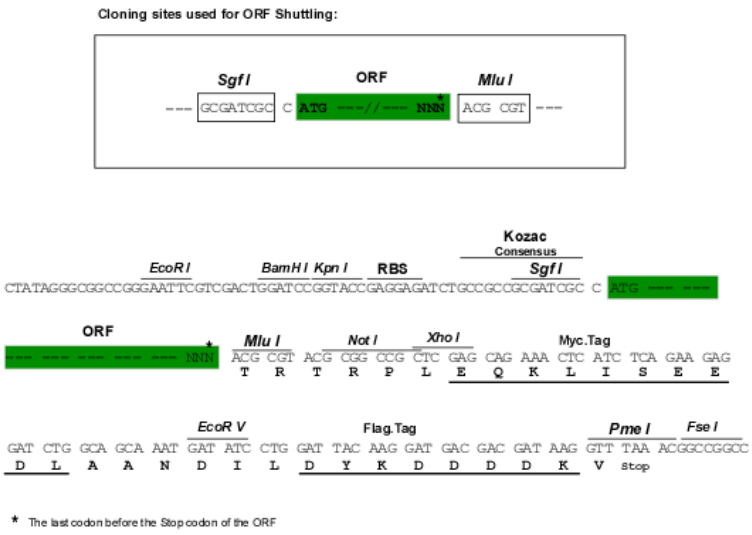
MKFVLLLSLIGFCWAQYDPHTSDGRTAIVHLFEWRWVDIAKECERYLAPKGFGGVQVSPPNENIVIHNPS
RPWWERYQPISYKICTRSGNEDEFRDMVTRCNNVGVRIYVDAVINHMCGSGNPAGTSSTCGSYLNPNNRE
FPAVPYSAWDFNDNKCNGEISNYNDAYQVRNCRLSGLLDLALEKDYVRTKVIDLGGEAIKGSEYFGNGRV
TEFKFGAKLGTVIRKWNGEKMSYLKNWGEGWGLVPSDRALVFVDNHDNQRGHGAGGSSILTFWDARMYKM
AVGFMLAHPYGFTRVMSSYRWNRNFQNGKDQNDWIGPPNNNGVTKEVTINADTTCGNDWVCEHRWRQIRN
MVAFRNVVNGQPFANWWDNNSNQVAFSRGNRGFIVFNNDDWALSATLQTGLPAGTYCDVISGDKVDGNCT
GLKVNVGSDGKAHFSISNSAEDPFIAIHADSKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9072_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:
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_001190403.1, NP_001177332.1

RefSeq Size: 1413 bp

RefSeq ORF: 1362 bp

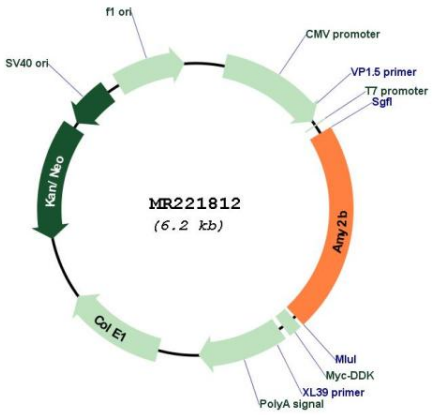
Locus ID: 545562

Cytogenetics: 3 49.35 cM

MW: 51 kDa

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]

Product images:



Circular map for MR221812