

Product datasheet for MR221785

Amy2b (NM_001190404) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Amy2b (NM_001190404) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Amy2b
Synonyms: Amy-X; Amy2-2; mAmy2-1; OTTMUSG00000022462
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR221785 representing NM_001190404
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTTCGTTCTGCTGCTTTCCCTCATTGGGTTCTGCTGGGCTCAATATGACCCACATACTTCAGATG
 GGAGGACTGCTATTGTCCACCTGTTGAGTGGCGCTGGGTTGATATTGCCAAGGAATGTGAGCGATACTT
 AGCTCCTAAGGGATTTGGAGGGGTGCAGGTCTCTCCACCAATGAAAATATTGTAATTCATAACCCATCA
 AGGCCTTGGTGGGAAAGATATCAACCAATCAGCTACAAAATTTGCACAAGGTCTGGAAATGAAGATGAAT
 TCAGAGACATGGTGACAAGGTGCAACAATGTTGGTGTCCGATTTATGTGGATGCTGTCATTAACCCAT
 GTGTGGCTCAGGCAATCCTGCAGGAACAAGCAGTACCTGTGGAAGTTACCTCAATCCAAATAACAGGGAA
 TTCCCAGCAGTTCCTACTCTGCTTTGGGACTTTAACGATAATAAATGTAATGGAGAAATAGTAACTACA
 ATGATGCTTATCAGGTTATTGATCTGGGTGGTGGGCAATTAAGGTAGTGAGTACTTTGGAAATGGCCG
 TGTAACAGAATCAAGTTTGGTGCAAACTTGGCACAGTTATCCGCAAGTGAATGGAGAGAAGATGTCC
 TATTTAAAGAAGTGGGGAGAAGGTTGGGTTTGGTGCCCTTGACAGAGCCCTTGTGTTTGGACAACC
 ATGACAATCAGCGAGGACATGGTGTGGAGGATCATCCATCCTGACATTCTGGGATGCTAGAATGTACAA
 AATGGCTGTTGGATTTATGTTGGCTCATCCTTATGGATTACAAAGAGTAATGTCAAGTTACCGTTGGAAT
 AGAAAATTTCCAGAATGGAAAAGATCAGAATGACTGGATTGGACCCTAATAACAATGGAGTAACAAAAG
 AAGTGACCATTAATGCAGACACTACTTGTGGCAATGACTGGGTCTGTGAACATAGATGGCGTCAAATAAG
 GAACATGGTTGCCTTCAGGAATGTAGTCAATGGTCAGCCTTTTGCAAACTGGTGGGATAATAACAGCAAC
 CAAGTAGCTTTTAGCAGAGGAAACAGAGGCTTCATTGTCTTTAACAAATGATGACTGGGCTTTGTGAGCCA
 CTTTACAGACTGGTCTTCTGCTGGCACATACTGTGATGTCATCTCTGGAGATAAGGTCGATGGCAATTG
 CACTGGACTTAAAGTAAATGTTGGCAGTGATGGTAAAGCTCACTTTTCCATTAGTAACTCTGCTGAGGAC
 CCATTTATTGCAATCCATGCTGACTCAAACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221785 representing NM_001190404
 Red=Cloning site Green=Tags(s)

MK FV L L L S L I G F C W A Q Y D P H T S D G R T A I V H L F E W R W V D I A K E C E R Y L A P K G F G G V Q V S P P N E N I V I H N P S
 R P W W E R Y Q P I S Y K I C T R S G N E D E F R D M V T R C N N V G V R I Y V D A V I N H M C G S G N P A G T S S T C G S Y L N P N N R E
 F P A V P Y S A W D F N D N K C N G E I S N Y N D A Y Q V I D L G G E A I K G S E Y F G N G R V T E F K F G A K L G T V I R K W N G E K M S
 Y L K N W G E G W L V P S D R A L V F V D N H D N Q R G H G A G G S S I L T F W D A R M Y K M A V G F M L A H P Y G F T R V M S S Y R W N
 R N F Q N G K D Q N D W I G P P N N G V T K E V T I N A D T T C G N D W V C E H R W R Q I R N M V A F R N V V N G P Q F A N W W D N N S N
 Q V A F S R G N R G F I V F N D D W A L S A T L Q T G L P A G T Y C D V I S G D K V D G N C T G L K V N V G S D G K A H F I S I N S A E D
 P F I A I H A D S K L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001190404

| | |
|-------------------------------|--|
| ORF Size: | 1293 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: | NM_001190404.1 , NP_001177333.1 |
| RefSeq Size: | 1347 bp |
| RefSeq ORF: | 1296 bp |
| Locus ID: | 545562 |
| Cytogenetics: | 3 49.35 cM |
| MW: | 48.9 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] |