

## Product datasheet for **SC113058**

### AMY2B (NM\_020978) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMY2B (NM_020978) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMY2B
Synonyms:	AMY2; AMY3; HXA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC113058 sequence for NM\_020978 edited (data generated by NextGen Sequencing)

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ATGAAGTTCTTTCTGTTGCTTTTCACCATTGGGTTCTGCTGGGCTCAGTATTCCCAAAT
ACACAACAAGGACGGACATCTATTGTTTCATCTGTTTGAATGGCGATGGGTTGATATTGCT
CTTGAATGTGAGCGATATTTAGCTCCCAAGGGATTTGGAGGGTTCAGGTCTCTCCACCA
AATGAAAATGTTGCAATTCACAACCCTTTCAGACCTTGGTGGGAAAGATACCAACCAGTT
AGCTATAAATATGCACAAGATCTGGAATGAAGATGAATTTAGAAACATGGTGACTAGA
TGTAACAATGTTGGGTTTCGTATTATGTGGATGCTGAATTAATCATATGTCTGGTAAT
GCTGTGAGTGCAGGAACAAGCAGTACCTGTGGAAGTTACTTCAACCCTGGAAGTAGGGAC
TTTCCAGCAGTCCCATATTCTGGATGGGATTTTAAATGATGGTAAATGTA AAACTGGAAGT
GGAGATATCGAGAACTACAATGATGCTACTCAGGTGAGAGATTGTCGTCTGGTTGGTCTT
CTTGATCTTGCACTGGAGAAAGATTATGTGCGTCCAAGATTGCCGAATATATGAATCAT
CTCATTGACATTGGTGTGCAGGGTTCAGACTTGATGCTTCCAAGCACATGTGGCCTGGA
GACATAAAGGCAATTTTGACAAACTGCATAATCTAAACAGTAACTGGTTCCTGCAGGA
AGTAAACCTTTTCATTTACCAGGAGGTAATTGATCTGGGTGGTGGCCAATTAAGCAGT
GACTACTTTGGAATGGCCGGGTGACAGAATTCAGTATGGTGC AAAACTCGGCACAGTT
ATTCGCAAGTGGAAATGGAGAGAAGATGTCTTACCTAAAGAACTGGGGAGAAGGTTGGGGT
TTCATGCCTTCTGACAGAGCACTTGTCTTTGTGGATAACCATGACAATCAACGAGGACAT
GGGGCTGGAGGAGCCTCTATTCTTACCTTCTGGGATGCTAGGCTGATAAAAATGGCAGTT
GGATTTATGCTTGCTCATCCTTATGGTTTTACACGAGTAAATGTCAAGCTACCGTTGGCCA
AGACAGTTTCAAATGGAACGATGTTAATGATTGGGTTGGGCCACCAATAATAATGGA
GTAATTAAGAAGTTACTATTAATCCAGACACTACTTGTGGCAATGACTGGTCTGTGAA
CATCGATGGCGCAAATAAGGAACATGGTTAATTTCCGCAATGTAGTGGATGGCCAGCCT
TTTACAAACTGGTATGATAATGGGAGCAACCAAGTGGCTTTTGGGAGAGGAAACAGAGGA
TTCATTGTTTTCAACAATGATGACTGGACATTTTCTTTAACTTTGCAA ACTGGTCTTCTCT
GCTGGCACATACTGTGATGTCATTTCTGGAGATAAAAATTAATGGCAATTGCACAGGCATT
AAAATCTACGTTTCTGACGATGGCAAAGCTCATTTTCTATTAGTAACTCTGCTGAGGAT
CCATTTATTGCAATTCATGCTGAATCTAAATTATAA
    
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Clone variation with respect to NM\_020978.3

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_020978 unedited
GTTTCAGATTTGTATACGACTCATATAGGCGGCCGCAAATTCGCACGAGGCACTCAACTA
CTATTAGCTGGCGAGTCAACTCAGTGTGTTGGAATGACTAGGGACAACACTAGACTTCAAGT
GATCTTTCATCCCAGGAATATAAATAGTTTCTGGAAAGGACACTGACAACCTCAAAGCAA
AATGAAGTTCTTCTGTTGCTTTTCACCATTGGGTTCTGCTGGGCTCAGTATTCCCAA
TACACAACAAGGACGGACATCTATTGTTTCATCTGTTTGAATGGCGATGGGTTGATATTGC
TCTTGAATGTGAGCGATATTTAGCTCCCAAGGGATTTGGAGGGTTCAGGTCTCTCCACC
AAATGAAAATGTTGCAATTCACAACCCTTTCAGACCTTGGTGGGAAAGATACCAACCAGT
TAGCTATAAATATGCACAAGATCTGGAATGAAGATGAATTTAGAAACATGGTGACTAG
ATGTAACAATGTTGGGTTTCGTATTTATGTGGATGCTGAATTAATCATATGTCTGGTAA
TGCTGTGAGTGCAGGAACAAGCAGTACCTGTGGAAGTTACTTCAACCCTGGAAGTAGGGA
CTTCCAGCAGTCCCATATTCTGGATGGGATTNTAATGATGGTAAATGTA AAACTGGAAG
TGGAGATATCGAGAACTACAATGATGCTACTCANGTCAGAGATTGTCGTCTGGTTGGTCT
TCTTGATCTTGCACTGGAGAAAGATATGTGCCGTCCAGATTGCCGATATATGAATCATCT
CATTGACATTGNTGTTGCAAGGNTCAGACTTGATGCTTCCAACACATGTGGCCTGNAGAC
ACTAAGGCCATTTGGNACAAACTGCATAATCTAACAGTNACTGNTCCNTGCCAGAAGTA
ACCTTCATTTACCG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_020978 unedited ATGGACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTGTTTTGAGGATA TGCATTTAATTTTAAATTTTATAATTTAGATTTCAGCATGAATTGCAATAAATGGATCCTC AGCAGAGTTACTAATAGAAAAATGAGCTTTGCCATCGTCAGAAACGTAGATTTTAAATGCC TGTGCAATTGCCATTAATTTTATCTCCAGAAATGACATCACAGTATGTGCCAGCAGGAAG ACCAGTTTGCAAAGTTAAAGAAAAATGTCCAGTCATCATTGTTGAAAACAATGAATCCTCT GTTTCCTCTCCAAAAGCCACTTGTTGCTCCCATTATCATACCCAGTTTGTAAAAGGCTG GCCATCCACTACATTGCGGAAATTAACCATGTTCTTATTTGGCGCCATCGATGTTTACA GACCCAGTCATTGCCACAAGTAGTGTCTGGATTAAAGTAACTTCTTTAATTACTCCATT ATTATTTGGTGGCCCAACCCAATCATTAAACATCGTTTCCATTTTAAAAGTCTTGGCCA ACGGTAGCTTGACATTACTCGTGTAAAACCATAAGGATGAGCAAGCATAAATCCAAGTGC CATTTTATACAGCCTAGCATCCCAGAAGGTAAGAATAGAGGCTCCTCCAGCCCCATGTCC TCGTTGATTGTCATGTTATCCACAAAGACAAGTCTCTGTCAGAAAGGCATGAAACCCCA ACCTTCTCCAGTTCTTAAAGTAAGACATCTCTCCATTCCACTTGGCAATAACTGTG CCGAGTTNTGACCATACTTGAATCTGTCACCGGNCATTCCAAGTAGTACTGCTTTAATTG CTCACACCAGATCATACCTCTGTAATGAAGGTTACTTCTGCAGGNACAGTCTGTAGAT ATGCAGTGTCAAATGCCTTTGTCTCAGCCAGTCTGGAGCTCAGCTGAACTGCACACA TGTATN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020978
<b>Insert Size:</b>	1800 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_020978.3</a> , <a href="#">NP_066188.1</a>
<b>RefSeq Size:</b>	2215 bp
<b>RefSeq ORF:</b>	1536 bp
<b>Locus ID:</b>	280
<b>UniProt ID:</b>	<a href="#">P19961</a>
<b>Cytogenetics:</b>	1p21.1
<b>Domains:</b>	alpha-amylase, Aamy_C, Aamy

<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	Metabolic pathways, Starch and sucrose metabolism
<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 human 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. [provided by RefSeq, Jun 2013]