

Product datasheet for SC119712

Pancreatic alpha amylase (AMY2A) (NM_000699) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Pancreatic alpha amylase (AMY2A) (NM_000699) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Pancreatic alpha amylase |
| Synonyms: | AMY2; PA |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_000699, the custom clone sequence may differ by one or more nucleotides |

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ATGAAGTCTTTCTGTTGCTTTTCACCATTGGGTTCTGCTGGGCTCAGTATCCCAAATACACAACAAG
GACGGACATCTATTGTTTCATCTGTTTGAATGGCGATGGGTTGATATTGCTCTTGAATGTGAGCGATTTT
AGCTCCGAAGGGATTTGGAGGGGTTTCAGGTCTCTCCACCAAAATGAAAATGTTGCAATTTACAACCTTTT
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TTAGAAACATGGTGACTAGATGTAACAATGTTGGGTTTCGATTTATGTGGATGCTGTAATTAATCATAT
GTGTGGTAACGCTGTGAGTGCAGGAACAAGCAGTACCTGTGGAAGTACTTCAACCCTGGAAGTAGGAGATCG
TTCCAGCAGTCCCATATTCTGGATGGGATTTCAATGATGGTAAATGTAAAAGTGAAGTGGAGATATCG
AGAACTACAATGATGCTACTCAGGTGAGAGATTGTCGTCTGACTGGTCTTCTTGATCTTGCAGTGGAGAA
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GGCCACCAAAATAAATGGAGTAATTAAGAAAGTTACTATTAATCCAGACACTACTTGTGCAATGACTG
GGTCTGTGAACATCGATGGCGCCAAATAAGGAACATGGTTATTTTCCGCAATGTAGTGGATGGCCAGCCT
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TCAACAATGATGACTGGTCATTTTCTTTAACTTTGCAAACTGGTCTTCTGCTGGCACATACTGTGATGT
CATTTCTGGAGATAAAAATTAATGGCAATGCACAGGCATTAATAATTTACGTTTCTGATGATGGCAAAGCT
CATTTTCTATTAGTAAGTCTGCTGAAGATCCATTTATTGCAATTCATGCTGAATCTAAATTGTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000699 unedited
 NGTTGCAGCAATTNTGTATACGATCTCACTATAGGGCGGCCGGAATCGGCACGAGGATG
 GAACTGAATATAAATAGTTTCTGGAAGGACACTGACAACCTCAAAGCAAATGAAGTTCT
 TTCTGTTGCTTTTACCATTGGGTTCTGCTGGGCTCAGTATCCCCAAATACACAACAAG
 GACGGACATCTATTGTTTCATCTGTTTGAATGGCGATGGGTTGATATTGCTCTTGAATGTG
 AGCGATATTTAGCTCCCAAGGGATTTGGAGGGGTTGAGTCTCCACCAATGAAAATG
 TTGCAATTCACAACCCCTTTCAGACCTTGGTGGGAAAGATACCAACCAGTTAGCTATAAAT
 TATGCACAAGATCTGAAATGAAGATGAATTTAGAAACATGGTGACTAGATGTAACAATG
 TTGGGTTTCGTATTTATGTGGATGCTGTAATTAATCATATGTCTGGTAATGCTGTGAGTG
 CAGGAACAAGCAGTACCTGTGGAAGTTACTTCAACCCTGGAAGTAGGGACTTTCCAGCAG
 TCCCATATTCTGGATGGGATTTTAAATGATGGTAAATGTAAAAGTGGAGATATCG
 AGAACTACAATGATGCTACTCAGGTCAGAGATTGTCGTCTGGTTGGTCTTCTTGATCTTG
 CACTGGAGAAAGATTATGTGCGTTCCAAGATTGCCGAATATATGAATCATCTCATTGACA
 TTGGTGTGCAGGGTTCAGACTTGATGCTTCCAAGCACATGTGGCCTGNAGACATAAAGG
 CAATTTTGGNNACAACCTGCATAATCTAACAGTAACTGGTTCCCTGCCAGAAAGTAACT
 TTCATTTACCAGNAGGTAATTGATCTGGGGTGGTGAAGCAATTAAGCAGTGACTACTT
 TGGAAATGGCCCCGTGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000699 unedited
 GGAAACCTCCAGTTCCAGNAGNAGCACTGGGGCAGGGGTCACAGGGATGCCACCCGGGAT
 CTGTTCCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTT
 TTTTTGGTTTGGAGATATGCATTTAATTTTAAATTTTATAATTTAGATTCAGCATGAATT
 GCAATAAATGGATCCTCAGCAGAGTTACTAATTTAAAAATGAGCTTTGCCATCGTCAGAA
 AGTAAATTTTAAATGCCTGTGCAATTGCCATTAATTTTATCTCCAGAAATGACATCACAG
 TATGTGCCAGCAGGAAGACCAGTTTGCAAAAGTTAAAGAAAATGTCCAGTCATCATTGTTG
 AAAACAATGAATCCTCTGTTTCCCTCCTCCAAAAGCCACTTGGTTGCTCCCATTATCATAC
 CAGTTTGTAAAAGGCTGGCCATCCACTACATTGCGGAAATTAACCATGTTCTTATTTGG
 CGCCATCGATGTTACAGACCCAGTCATTGCCACAAGTAGTGTCTGGATTAATAGTAACT
 TCTTTAATTACTCCATTATTTTGGTGGCCCAACCAATCATTAACATCGTTTCCATTT
 TGAAACTGTCTTGGCCAACGGTAGCTTGACATTACTCGTGTAACCATAAAGGATGAGCA
 AGCATAAATCCAACCTGCAATTTTATACAGCCTAGCATCCAGAAGGTAAGAATAGAGGCT
 CCTCCAGCCCCATGTCTCGTTGATTGTCATGGNTATCCACAAAGACAAGTGCTCTGTCA
 GAAAGCATGAACCCCAACCTTCTCCAGATCTTTAGTAAGACATCTTCTTTCATTCACT
 TGCGAATACTGTGCCAGTTTTGCACATACTTGAATCCTGTACCCGGCATTTCCAAGTA
 TCACTGCTTTN

Restriction Sites:

NotI-NotI

ACCN:

NM_000699

Insert Size:

1660 bp

OTI Disclaimer:

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).

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_000699.2](#), [NP_000690.1](#)

RefSeq Size: 1660 bp

RefSeq ORF: 1536 bp

Locus ID: 279

UniProt ID: [P04746](#)

Cytogenetics: 1p21.1

Domains: alpha-amylase, Amy_C, Amy

Protein Families: Secreted Protein

Protein Pathways: Metabolic pathways, Starch and sucrose metabolism

Gene Summary: This gene encodes a member of the alpha-amylase family of proteins. Amylases are secreted proteins that hydrolyze 1,4-alpha-glucoside bonds in oligosaccharides and polysaccharides, catalyzing the first step in digestion of dietary starch and glycogen. This gene and several family members are present in a gene cluster on chromosome 1. This gene encodes an amylase isoenzyme produced by the pancreas. [provided by RefSeq, Jan 2015]