

Product datasheet for **SC117623**

Salivary alpha amylase (AMY1A) (NM_004038) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Salivary alpha amylase (AMY1A) (NM_004038) Human Untagged Clone
Tag:	Tag Free
Symbol:	Salivary alpha amylase
Synonyms:	AMY1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004038, the custom clone sequence may differ by one or more nucleotides

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ATGAAGCTCTTTGGTTGCTTTTCACCATTGGGTTCTGCTGGGCTCAGTATTCCTCAAATACACAACAAG
GACGAACATCTATTGTTTCATCTGTTTGAATGGCGATGGGTTGATATTGCTCTTGAATGTGAGCGATATTT
AGCTCCCAAGGGATTTGGAGGGGTTTCAGGTTCTCCACCAAAATGAAAATGTTGCCATTACACAACCTTTTC
AGACCTTGGTGGGAAAGATACCAACCAGTTAGCTATAAATTATGCACAAGATCTGGAAATGAAGATGAAT
TTAGAAACATGGTGACTAGATGCAACAATGTTGGGTTTCGATTTATGTGGATGCTGTAATTAATCATAT
GTGTGGTAAATGCTGTGAGTGCAGGAACAAGCAGTACCTGTGGAAGTACTTCAACCCTGGAAGTAGGAGATCG
TTCCAGCAGTCCCATATTCTGGATGGGATTTTAAATGATGTTAAATGTAACCTGGAAGTGGAGATATCG
AGAACTATAATGATGCTACTCAGGTGAGAGATTGTCGTCTGTCTGGTCTTCTCGATCTTGCCTGGGAA
GGATTATGTGCGTTCTAAGATTGCCAATATATGAACCATCTCATTGACATTGGTGTGACAGGGTTCAGA
ATTGATGCTTCCAAGCACATGTGGCCTGGAGACATAAAGGCAATTTTGGACAACTGCATAATCTAAACA
GTAACCTGGTCCCGAAGGTAGTAAACCTTTCAATTAACAGGAGGTAATTGATCTGGGTGGTGGAGCAAT
TAAAAGCAGTGACTACTTTGGTAAATGGCCGGGTGACAGAATCAAGTATGGTGCAAACTCGGCACAGTT
ATTCGCAAGTGGAAATGGAGAGAAGATGTCTTACTTAAAGAACTGGGGAGAAGGTTGGGGTTTCATGCCTT
CTGACAGAGCGCTTGTCTTTGTGGATAACCATGACAATCAACGAGGACATGGCGCTGGAGGAGCCTCTAT
ACTTACCTCTGGGATGCTAGGCTGTACAAAATGGCAGTTGGATTTATGCTTGCATCCTTATGGATTT
ACACGAGTAATGTCAAGCTACCGTTGGCCAAGATATTTTGAATAAGGAAAGATGTTAATGATTGGGTTG
GGCCACCAAAATGATAATGGAGTAACTAAAGAAAGTTACTATTAATCCAGACACTACTTGTGCAATGACTG
GGTCTGTGAACATCGATGGCGCCAAATAAGGAACATGGTTAATTTCCGCAATGTAGTGGATGGCCAGCCT
TTTACAACTGGTATGATAATGGGAGCAACCAAGTGGCTTTTGGGAGAGGAAACAGAGGATTCATTGTTT
TCAACAATGATGACTGGACATTTTCTTTAACTTTGCAAACTGGTCTTCTGCTGGCACATACTGTGATGT
CATTTCTGGAGATAAAAATTAATGGCAACTGCACAGGCATTAATAATCTACGTTTCTGATGATGGCAAAGCT
CATTTTCTATTAGTAACTCTGCTGAAGATCCATTTATTGCAATTCATGCTGAATCTAAATTGTAA
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Restriction Sites:	Please inquire
ACCN:	NM_004038
Insert Size:	1860 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:	<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_004038.3</u> , <u>NP_004029.2</u>
RefSeq Size:	1862 bp
RefSeq ORF:	1536 bp
Locus ID:	276
UniProt ID:	<u>P04745</u>
Cytogenetics:	1p21.1
Domains:	alpha-amylase, Amy_C, Amy
Protein Families:	ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Metabolic pathways, Starch and sucrose metabolism
Gene Summary:	<p>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 salivary gland. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>