

## Product datasheet for **SC301259**

### Salivary alpha amylase (AMY1B) (NM\_001008218) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Salivary alpha amylase (AMY1B) (NM_001008218) Human Untagged Clone
Tag:	Tag Free
Symbol:	Salivary alpha amylase
Synonyms:	AMY1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC301259 representing NM\_001008218.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAAGCTCTTTTGGTTGCTTTTACCATTGGGTTCTGCTGGGCTCAGTATTCCTCAAATACACAACAA
GGACGAACATCTATTGTTTCATCTGTTTGAATGGCGATGGGTTGATATTGCTCTTGAATGTGAGCGATAT
TTAGCTCCAAGGGATTTGGAGGGGTTCCAGGTCTCTCCACAAATGAAAATGTTGCCATTACAACCCCT
TTCAGACCTTGGTGGAAAGATACCAACCAAGTTAGCTATAAAATTATGCACAAGATCTGGAATGAAGAT
GAATTTAGAAACATGGTGACTAGATGCAACAATGTTGGGTTTCGTATTTATGTGGATGCTGTAATTAAT
CATATGTGTGGTAATGCTGTGAGTGCAGGAACAAGCAGTACCTGTGGAAGTTACTTCAACCCCTGGAAGT
AGGGACTTCCAGCAGTCCCATATTCTGGATGGGATTTTAAATGATGGTAAATGAAAACCTGGAAGTGGA
GATATCGAGAATAATGATGCTACTCAGGTCAGAGATTGTCGTCTGTCTGGTCTTCTCGATCTTGCA
CTGGGGAAGGATTATGTGCGTTCTAAGATTGCCGAATATATGAACCATCTCATTGACATTGGTGTGCA
GGGTTCCAGAATTGATGCTTCCAAGCACATGTGGCCTGGAGACATAAAGGCAATTTTGACAAACTGCAT
AATCTAAACAGTAACTGGTCCCGGAAGGTAGTAAACCTTTCATTTACCAGGAGGTAATTGATCTGGGT
GGTGAGCCAATTAAGAGCAGTACTACTTTGGTAAATGGCCGGGTGACAGAATTAAGTATGGTGCAAAA
CTCGGCACAGTTATTCGCAAGTGGAAATGGAGAGAAGATGTCTTACTTAAAGAACTGGGGAGAAGGTTGG
GGTTTCATGCCTTCTGACAGAGCGCTTGTCTTTGTGGTAACCATGACAATCAACGAGGACATGGCGCT
GGAGGAGCCTCTACTTACCTTCTGGGATGCTAGGCTGTACAAAATGGCAGTTGGATTTATGCTTGTCT
CATCCTTATGGATTTACACGAGTAAATGTCAAGTACCGTTGGCCAAGATATTTGAAAATGGAAAAGAT
GTTAATGATTGGGTTGGCCACCAAAATGATAATGGAGTAACTAAGAAGTTACTATTAATCCAGACACT
ACTTGTGGCAATGACTGGGCTGTGAACATCGATGGCGCCAATTAAGGAACATGGTTAATTTCCGCAAT
GTAGTGGATGGCCAGCCTTTTACAAACTGGTATGATAATGGGAGCAACCAAGTGGCTTTTGGGAGAGGA
AACAGAGGATTATTGTTTTCAACAATGATGACTGGACATTTTCTTAACTTTGCAAACTGGTCTTCTCT
GCTGGCACATACTGTGATGTCATTTCTGGAGATAAAAATTAATGGCAACTGCACAGGCATTAATACTAC
GTTTCTGATGATGGCAAAGCTCATTTTTCTATTAGTAACTCTGCTGAAGATCCATTTATTGCAATTCAT
GCTGAATCTAAATTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001008218

**Insert Size:** 1536 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<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_001008218.1</a>
<b>RefSeq Size:</b>	1838 bp
<b>RefSeq ORF:</b>	1536 bp
<b>Locus ID:</b>	277
<b>UniProt ID:</b>	<a href="#">P04745</a>
<b>Cytogenetics:</b>	1p21.1
<b>Protein Pathways:</b>	Metabolic pathways, Starch and sucrose metabolism
<b>MW:</b>	57.8 kDa
<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 salivary gland. [provided by RefSeq, Jul 2008]