

Product datasheet for RC217403L4

OriGene Technologies, Inc.

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Salivary alpha amylase (AMY1A) (NM_004038) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Salivary alpha amylase (AMY1A) (NM_004038) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Salivary alpha amylase

Synonyms: AMY1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Sgfl-Mlul

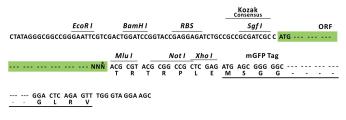
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC217403).

Sequence:

Restriction Sites: Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_004038

ORF Size: 1533 bp



Salivary alpha amylase (AMY1A) (NM_004038) Human Tagged Lenti ORF Clone - RC217403L4

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: 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:
 P04745

 Cytogenetics:
 1p21.1

Domains: alpha-amylase, Aamy C, Aamy

Protein Families: ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways: Metabolic pathways, Starch and sucrose metabolism

MW: 57.8 kDa

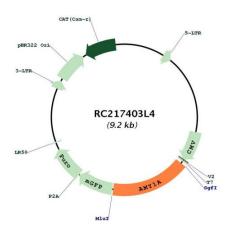
Gene Summary: Amylases are secreted proteins that hydrolyze 1,4-alpha-glucoside bonds in oligosaccharides

and polysaccharides, and thus catalyze the first step in digestion of dietary starch and glycogen. The 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]



Product images:



Circular map for RC217403L4