

## Product datasheet for **RG215827**

### Salivary alpha amylase (AMY1C) (NM\_001008219) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Salivary alpha amylase (AMY1C) (NM_001008219) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMY1C
Synonyms:	AMY1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG215827 representing NM\_001008219  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGCTCTTTTGGTTGCTTTTACCATTGGGTTCTGCTGGGCTCAGTATTCCTCAAATACACAACAAG  
 GACGAACATCTATTGTTCACTGTTGAATGGCGATGGGTTGATATTGCTTGAATGTGAGCGATATTT  
 AGCTCCCAAGGGATTTGGAGGGTTTCAGGTCTCTCCACCAAAATGAAAATGTTGCCATTCACAACCCTTTC  
 AGACCTTGGTGGGAAAGATACCAACCAGTTAGCTATAAATTATGCACAAGATCTGGAAATGAAGATGAAT  
 TTAGAAACATGGTACTAGTGAACAATGTTGGGTTCTGATTTATGTGGATGCTGTAATTAATCATAT  
 GTGTGGTAATGCTGTGAGTGCAGGAACAAGCAGTACCTGTGGAAGTACTTCAACCCTGGAAGTAGGGAC  
 TTTCCAGCAGTCCCATATTCTGGATGGGATTTAATGATGGTAAATGTAAAAGTGAAGTGGAGATATCG  
 AGAACTATAATGATGCTACTCAGGTGAGAGATTGCTGCTGTCTGGTCTTCTCGATCTTGCCTGGGAA  
 GGATTATGTGCGTTCTAAGATTGCCGAATATGAACCATCTCATTGACATTGGTGTTCAGGGTTCAGA  
 ATTGATGCTTCCAAGCAGATGTGGCCTGGAGACATAAAGGCAATTTTGGACAACTGCATAATCTAAACA  
 GTAACCTGGTCCCGAAGGTAGTAAACCTTTCATTTACCAGGAGGTAATTGATCTGGGTGGTGGACCAAT  
 TAAAAGCAGTGACTACTTTGGTAAATGGCCGGGTGACAGAAATCAAGTATGGTGCAAACTCGGCACAGTT  
 ATTCGCAAGTGGAAATGGAGAGAAGATGTCTTACTTAAAGAAGTGGGAGAAAGGTTGGGTTTTCATGCCTT  
 CTGACAGAGCGCTTGTCTTTGTGGATAACCATGACAATCAACGAGGACATGGCGCTGGAGGAGCCTCTAT  
 ACTTACCTTCTGGGATGCTAGGCTGTACAAAATGGCAGTTGGATTTATGCTTGTCTCATCCTTATGGATT  
 ACACGAGTAATGTCAAGTACCCTTGGCCAAGATATTTGAAAATGAAAAGATGTAATGATTGGGTTG  
 GCCACCAATGATAATGGAGTAACTAAAGAAGTACTATTAATCCAGACACTACTTGTGGCAATGACTG  
 GGTCTGTGAACATCGATGGCGCCAATAAAGGAACATGGTTAATTTCCGCAATGTAGTGGATGGCCAGCCT  
 TTTACAACTGGTATGATAATGGGAGCAACCAAGTGGCTTTTGGGAGAGGAAACAGAGGATTCATTGTTT  
 TCAACAATGATGACTGGACATTTTCTTTAACTTTGCAAACCTGGTCTTCTGCTGGCACATACTGTGATGT  
 CATTCTGGAGATAAAATTAATGGCACTGCACAGGCATTAATACTACGTTTCTGATGATGGCAAAGCT  
 CATTCTTCTATTAGTAAGTCTGCTGAAGATCCATTTATTGCAATTCATGCTGAATCTAAATTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG215827 representing NM\_001008219  
 Red=Cloning site Green=Tags(s)

MKLFWLLFTIGFCWAQYSSNTQQGRTSIVHLFEWRWVDIALECERYLAPKGGVQVSPNENVAIHNP  
 RPWWERYQPVSYKLCTRSNGNEDEFNMVTRCANNVGVRIYVDAVINHMCNAVSAGTSSTCGSYFNPGRD  
 FPAVPYSGWDFNDGKCKTGSVDIENYNDATQVRDCRLSGLLDLALGKDYVRSKIAEYMNHLIDIGVAGFR  
 IDASKHMWPGDIKAILDKLHNLNSNWFPEGSKPFYQEVIDLGGPEIKSSDYFGNGRVTEFKYGAKLGT  
 IRKWNGEKMSYLKNWGEWGFMPSPDRALVFDNHDNQRGHGAGGASILTFWDARLYKMAVGFMLAHPYGF  
 TRVMSSYRWPRYFENGKDVNDWVPPNDNGVTKEVTINPDTCGNDWVCEHRWRQIRNMVNFNRNVVDGQP  
 FTNWDYDNGSNQVAFGRNRFIVFNDDWTFSLTLQTGLPAGTYCDVISGDKINGNCTGIKIYVSDDGKA  
 HFSISNSAEDPFIHHAESKL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

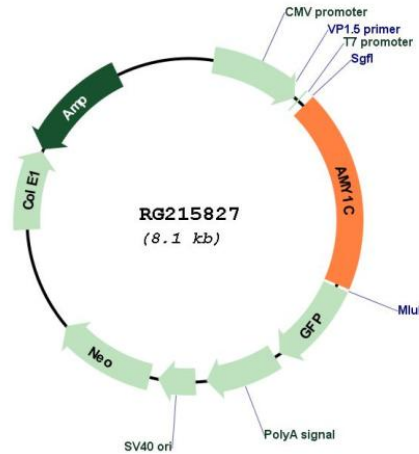
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_001008219

ORF Size: 1533 bp

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).

<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_001008219.2</a>
<b>RefSeq Size:</b>	1860 bp
<b>RefSeq ORF:</b>	1536 bp
<b>Locus ID:</b>	278
<b>UniProt ID:</b>	<a href="#">P04745</a>
<b>Cytogenetics:</b>	1p21.1
<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 salivary gland. [provided by RefSeq, Jul 2008]